

FOR INDEX OF SHEETS, SEE SHEET NO. 2 11-08-2024 LETTING ITEM 048
FOR SUMMARY OF QUANTITIES, SEE SHEET NOS. 3-9

STRUCTURAL DESIGN TRAFFIC	YEAR	2017
PV = 94.9%	SU = 4.4%	MU = 0.7%
ROAD / STREET CLASSIFICATION	CLAS	III
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE		
P = 50%	S = 50%	M = 50%
TRAFFIC FACTOR	Actual TF = 0.07	Minimum TF = NO MIN
PG GRADE	Top Blnder = PG 64-22	Lower Blnder = PG 64-22
	Surface = PG 64-22	
SUBGRADE SUPPORT RATING		
SSR= POOR	(Sta 47+00.00 to Sta. 53+00.00)	

TRAFFIC DATA

LEG A (I-72) ADT 13,4000 (2024) 14,700 (2044)

P.V. 76.3% S.U.% 4.7% M.U.% 19.0%

LEG B (FAS 1532) ADT 925 (2024) 1,000 (2044)

P.V. 96.5% S.U.% 3.0% M.U.% 0.5%

LEG C (FAS 1532 TO I-72 WB RAMP) ADT 175 (2024) 200 (2044)

P.V. 90.9% S.U.% 5.7% M.U.% 3.4%

LEG D (I-72 EB TO FAS 1532 RAMP) ADT 250 (2024) 275 (2044)

P.V. 88.4% S.U.% 8.0% M.U.% 3.6%

LEG E (I-72 WB TO FAS 1532 RAMP) ADT 175 (2024) 200 (2044)

P.V. 98.3% S.U.% 1.1% M.U.% 0.6%

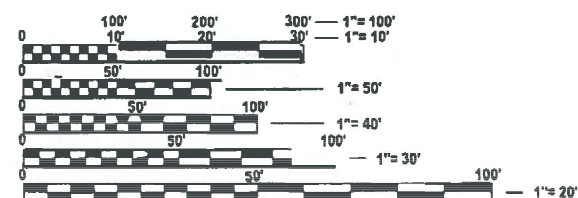
LEG F (FAS 1532 TO I-72 EB RAMP) ADT 225 (2024) 250 (2044)

P.V. 95.6% S.U.% 3.1% M.U.% 1.3%

BRIDGE REPLACEMENT

EXISTING SN 074-0026
PROPOSED SN 074-0088

BRIDGE REPLACEMENT
EXISTING SN 074-0026
PROP. SN 074-0088
2-SPAN AT 270'-0" B-B ABUTS
34'-10" OUT TO OUT WIDTH
23°15'20" SKEW



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811
TOWNSHIP: SANGAMON

PROJECT ENGINEER - JASON STULTS, P.E.
PROJECT MANAGER - JASON GOBLE
PHONE: (217) 465-4181

CONTRACT NO. 70629

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

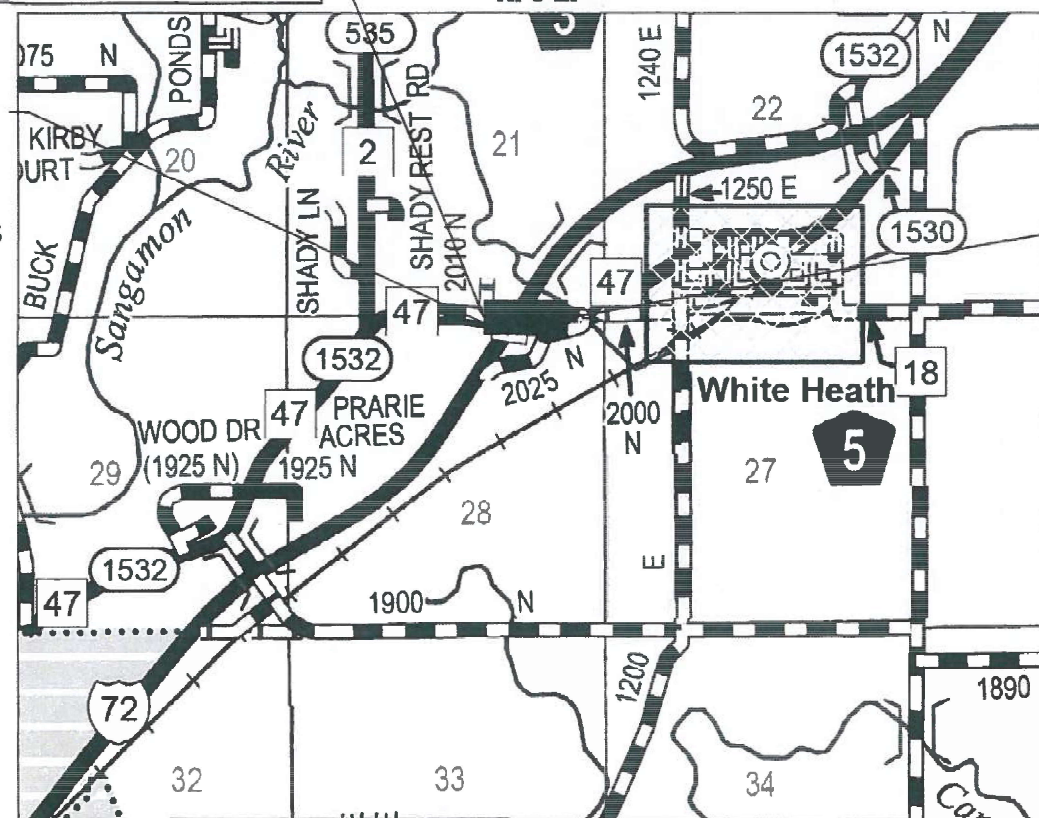
PROPOSED HIGHWAY PLANS

FAI ROUTE 72
SECTION 74-69BR
PROJECT NHPP-RHSB(258)
BRIDGE REPLACEMENT
PIATT COUNTY
AT WHITE HEATH RD (OVERHEAD)
4.3 MI W OF CHAMPAIGN CO LINE

PROJECT BEGINS STA 41+90.89

C-95-040-07

R. 6 E.



NOT TO SCALE

GROSS LENGTH = 270.00 FT. = 0.051 MILE
NET LENGTH = 270.00 FT. = 0.051 MILE



T. 19 N.

PROJECT END STA 62+87.52



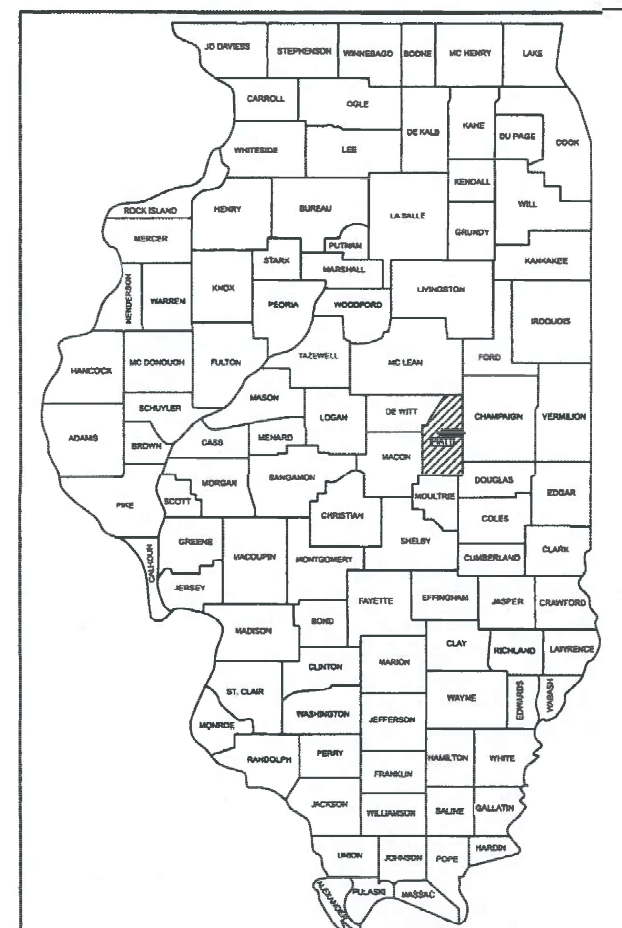
DREW S. RUHOFF
DATE 08/02/2024
LICENSE EXPIRES 11-30-25



BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1970 WEST LAFAYETTE AVE.
JACKSONVILLE, IL 62650
PHONE: 217-245-4146 FAX: 217-245-4149
IL DESIGN FIRM REGISTRATION NO. 184-000852

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	1
ILLINOIS CONTRACT NO. 70629				

P-95-040-07



LOCATION OF SECTION INDICATED THIS: -

FUNCTIONAL CLASSIFICATION

FAS 1532 - MAJOR COLLECTOR
FAI 72: INTERSTATE

DESIGN DESIGNATION - 925(24) UNMARKED STATE ROUTE 0.07 (HMA-20)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 8/7 20 24
Kensel A. Garnett REGIONAL ENGINEER
October 4, 2024
Scott A. Elk ENGINEER OF DESIGN AND ENVIRONMENT
October 4, 2024
Jason M. Goble DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

MODEL: General Notes [Sheet]
FILE NAME: P:\22E3703-3 - 70629 White Heath\70629 Section 74-69 BR/CADD Sheets\DS70629-shh-gennote.dgn

INDEX OF SHEETS

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HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-10	PAVEMENT JOINTS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482006-03	HMA SHOULDER ADJACENT TO RIGID PAVEMENT
515001-04	NAME PLATE FOR BRIDGES
542401-04	METAL FLARED END SECTION FOR PIPE CULVERTS
606401-02	PAVED DITCH
610001-09	SHOULDER INLET WITH CURB
630001-13	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
701001-02	OFF-RD OPERATIONS, 22, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L 2W, DAY ONLY FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L 2W, MOVING OPERATIONS - DAY ONLY
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-13	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701451-05	RAMP CLOSURE FREEWAY/EXPRESSWAY
701456-05	PARTIAL EXIT RAMP CLOSURE, FREEWAY/EXPRESSWAY
701901-09	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

COMMITMENTS

NONE

GENERAL NOTES

G.N.-105.09A
ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-201
TREES THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. ANY TREE DUE TO ITS LOCATION AND DEEMED SUITABLE FOR SAVING BY THE ENGINEER SHALL BE PROTECTED DURING CLEARING AND SUBSEQUENT CONSTRUCTION OPERATIONS.

G.N.-406H
THE FOLLOW MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

Location	Old IL 47	Old IL 47	Old IL 47	Old IL 47	Old IL 47
Mixture Use	Polymer Mainline Surface (Top 1-1/4")	Polymer Mainline Binder (Top lift - 2-1/4")	Mainline Binder (Bottom lift)	Shoulder Surface (Top 1.5")	Shoulder Binder (Bottom 6")
AC/PG	SBS PG 70-28	SBS PG 70-28	PG 64-22	PG 64-22	PG 64-22
Design Air Voids	4.0% @ Ndes=50	4.0% @ Ndes=50	4.0% @ Ndes=50	4.0% @ Ndes=30	4.0% @ Ndes=30
Mix Comp(Gradation)	IL 9.5 FG	IL 19.0	IL 19.0	IL 9.5L	IL 19.0L
Friction Aggregate	Mix D	N.A.	N.A.	Mix C	N.A.
Mixture Weight	112	112	112	112	112
Quality Management Program	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA
Sublot Size	3000	3000	3000	3000	3000
Material Transfer Device (Required ?)	NO	NO	NO	NO	NO

G.N.-406S
THE FOLLOWING TABLE IS A LISTING OF POSTED SPEED LIMITS WITHIN THE PROJECT LIMITS. THE ENGINEER SHALL FIELD VERIFY THESE LIMITS:

STA.	TO	STA.	POSTED SPEED LIMIT (MPH)
47+00.00	TO	53+00.00	45 MPH

G.N.-601X
MATERIALS FOR PIPE DRAINS SHALL BE ONLY ITEMS (2), (3) OR (5) FROM ARTICLE 601.02(a).

G.N.-703A
SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER ANY OF THE FOLLOWING: COLD MILLING AND/OR PLACING BITUMINOUS MATERIALS (TACK COAT), LEVELING BINDER (MACHINE METHOD), BINDER AND SURFACE COURSES. SHORT TERM PAVEMENT MARKING PLACED ON THE SURFACE SHALL COINCIDE WITH THE FINAL PAVEMENT STRIPING. SHORT TERM PAVEMENT MARKING PLACED PRIOR TO THE SURFACE SHALL COINCIDE WITH THE EXISTING PAVEMENT MARKINGS. USE 4 FEET PER 40 FEET (OR 10% PER STATION).

S.N.-074-0026 HAS BEEN DETERMINED, THROUGH TESTING, NOT TO INVOLVE ASBESTOS IN THE BITUMINOUS BRIDGE DECK WEARING SURFACE OR WATERPROOFING MEMBRANE AS CERTIFIED WITH BBS FORM 2536 DATED AUGUST 14, 2002.



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IL DESIGN FIRM REGISTRATION NO. 184-000282

USER NAME = dnuholl	DESIGNED - DSR	REVISED -
	DRAWN - DSR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - WJS	REVISED -
PLOT DATE = 7/30/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS,
GENERAL NOTES & COMMITMENTS

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	2
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

MODEL: SOQ [Sheet]
FILE NAME: P:\22E3703-3 - 70629 White Heath\70629 Section 74-69 BR\CADD Sheets\DE570629-shh-SOQ.dgn



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1910 WEST LAFAYETTE AVE.
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PHONE: 217-245-4149 FAX: 217-245-4149
IL DESIGN FIRM REGISTRATION NO. 184-000852

USER NAME	= dnuholl
PLOT SCALE	= \$SCALE\$
PLOT DATE	= 7/30/2024

DESIGNED -	DSR
DRAWN -	DSR
CHECKED -	WJS
DATE -	AUGUST 2, 2024

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES WHITE HEATH ROAD (OLD 47)			
SCALE:	SHEET 1	OF 7 SHEETS	STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	3
		CONTRACT NO. 70629		
		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				RURAL 4-LANE / INTERSTATE / PIATT COUNTY 90% FED / 10% STATE FAI 72
				BRIDGE
				0010 S.N. 074-0088
20100500	TREE REMOVAL , ACRES	ACRE	1.25	1.25
20200100	EARTH EXCAVATION	CU YD	60	60
20400800	FURNISHED EXCAVATION	CU YD	520	520
25000210	SEEDING, CLASS 2A	ACRE	1.5	1.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	132	132
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	132	132
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	132	132
25100630	EROSION CONTROL BLANKET	SQ YD	7120	7120
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	147	147
28000305	TEMPORARY DITCH CHECKS	FOOT	10	10
28000400	PERIMETER EROSION BARRIER	FOOT	1777	1777
28000500	INLET AND PIPE PROTECTION	EACH	2	2
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	709	709
31200100	STABILIZED SUBBASE 4"	SQ YD	132	132

*DENOTES SPECIALTY ITEM

MODEL: SQQ-1 [Sheet]
FILE NAME: P:\22E3703-3-70629 White Heath\70629 Section 74-69 BR\CADD Sheets\DS70629-shh-SQQ.dgn

SUMMARY OF QUANTITIES				CONSTR. CODE	
				RURAL 4-LANE / INTERSTATE / Piatt COUNTY 90% FED / 10% STATE FAI 72	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE	
				0010	
				S.N. 074-0088	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1246	1246	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	425	425	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	49	49	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	22	22	
40603230	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	10	10	
40604110	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "D", N50	TON	18	18	
40701831	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 7 1/2"	SQ YD	403	403	
42000060	WELDED WIRE REINFORCEMENT	SQ YD	156	156	
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	156	156	
44000100	PAVEMENT REMOVAL	SQ YD	595	595	
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	140	140	
44004000	PAVED DITCH REMOVAL	FOOT	122	122	
44004250	PAVED SHOULDER REMOVAL	SQ YD	187	187	
48101498	AGGREGATE SHOULDERS, TYPE B 4"	SQ YD	201	201	
* DENOTES SPECIALTY ITEM					

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MODEL: SOQ-2 [Sheet]
FILE NAME: P:\22E3703-3 - 70629 White Heath\70629 Section 74-69 BR/CADD Sheets\DS70629-shr-SOQ.dgn

SUMMARY OF QUANTITIES				CONSTR. CODE
				RURAL 4-LANE / INTERSTATE / Piatt COUNTY 90% FED / 10% STATE FAI 72
				BRIDGE
				0010 S.N. 074-0088
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
48203027	HOT-MIX ASPHALT SHOULDERS, 7 1/2"	SQ YD	238	238
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50157300	PROTECTIVE SHIELD	SQ YD	651	651
50200100	STRUCTURE EXCAVATION	CU YD	332	332
50300225	CONCRETE STRUCTURES	CU YD	138.8	138.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	375	375
50300300	PROTECTIVE COAT	SQ YD	1442	1442
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1
50500505	STUD SHEAR CONNECTORS	EACH	3216	3216
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	113160	113160
50800530	MECHANICAL SPLICERS	EACH	40	40
51100100	SLOPE WALL 4 INCH	SQ YD	425	425
51200959	FURNISHING METAL SHELL PILES 14" X 0.312"	FOOT	1118	1118
51202305	DRIVING PILES	FOOT	1118	1118

*DENOTES SPECIALTY ITEM

BA BENTON & ASSOCIATES, INC. CONSULTING ENGINEERS / LAND SURVEYORS 1910 WEST LAFAYETTE AVE. JACKSONVILLE, IL 62650 PHONE: 217-245-4146 FAX: 217-245-4149 IL DESIGN FIRM REGISTRATION NO. 184-000852	USER NAME = dnuholl	DESIGNED - DSR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES WHITE HEATH ROAD (OLD 47)			FAI RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$\$CALE\$	DRAWN - DSR	REVISED -					72	74-69BR	PIATT	78	5
	PLOT DATE = 7/30/2024	CHECKED - WJS	REVISED -		SCALE:			CONTRACT NO. 70629				
		DATE - AUGUST 2, 2024	REVISED -		SHEET 3 OF 7 SHEETS			ILLINOIS FED. AID PROJECT				

MODEL: SOQ-3 [Sheet]
FILE NAME: P:\22E3703-3 - 70629 White Heath\70629 Section 74-69 BR\CADD Sheets\DE570629-shh-SOQ.dgn



BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1910 WEST LAFAYETTE AVE.
BLOOMINGTON, IL 61820
PHONE: 217-245-4149 FAX: 217-245-4149
IL DESIGN FIRM REGISTRATION NO. 184-000852

USER NAME	= dnuholl
PLOT SCALE	= \$SCALE\$
PLOT DATE	= 7/30/2024

DESIGNED -	DSR
DRAWN -	DSR
CHECKED -	WJS
DATE -	AUGUST 2, 2024

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES WHITE HEATH ROAD (OLD 47)			
SCALE:	SHEET 4	OF 7 SHEETS	STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	6
		CONTRACT NO. 70629		
		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				RURAL 4-LANE / INTERSTATE / PIATT COUNTY 90% FED / 10% STATE FAI 72
				BRIDGE
				0010 S.N. 074-0088
51203200	TEST PILE METAL SHELLS	EACH	2	2
51204650	PILE SHOES	EACH	26	26
51500100	NAME PLATES	EACH	1	1
52000110	PREFORMED JOINT STRIP SEAL	FOOT	74	74
52100520	ANCHOR BOLTS, 1"	EACH	24	24
52100530	ANCHOR BOLTS, 1 1/4"	EACH	12	12
54262712	METAL FLARED END SECTIONS 12"	EACH	4	4
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	172	172
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	85	85
60100945	PIPE DRAINS 12"	FOOT	190	190
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	154	154
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	1	1
60500060	REMOVING INLETS	EACH	1	1
60615910	PAVED DITCH, TYPE A-22	FOOT	60	60

*DENOTES SPECIALTY ITEM

MODEL: SQC4 [Sheet]
FILE NAME: P:\225703-3-70629 White Heath\70629 Section 74-69 BR\CADD Sheets\DS70629-shh-SQC.dgn



BENTON & ASSOCIATES, INC.
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1910 WEST LAFAYETTE AVE.
BLOOMINGTON, IL 61709
PHONE: 217-245-1149 FAX: 217-245-1149
IL DESIGN FIRM REGISTRATION NO. 184-000852

USER NAME	= druholl
PLOT SCALE	= \$SCALE\$
PLOT DATE	= 7/30/2024

DESIGNED	- DSR
DRAWN	- DSR
CHECKED	- WJS
DATE	- AUGUST 2, 2024

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES WHITE HEATH ROAD (OLD 47)			
SCALE:	SHEET 5	OF 7 SHEETS	STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	7
		CONTRACT NO. 70629		
		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES				CONSTR. CODE
				RURAL 4-LANE / INTERSTATE / PIATT COUNTY 90% FED / 10% STATE FAI 72
				BRIDGE
				0010 S.N. 074-0088
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
61000050	CONCRETE THRUST BLOCKS	EACH	4	4
61000335	TYPE G INLET BOX, STANDARD 610001	EACH	4	4
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	2800	2800
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3
63200310	GUARDRAIL REMOVAL	FOOT	3186	3186
64300450	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
64301090	ATTENUATOR BASE	SQ YD	55	55
66201120	CONCRETE SHOULDER CURB	FOOT	107	107
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9
67100100	MOBILIZATION	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1

* DENOTES SPECIALTY ITEM

MODEL: SOQ-5 (Sheet)
FILE NAME: P:\225703-3 - 70629 White Heath\70629 Section 74-69 BR\CAADD Sheets\DS70629-shr-SOQ.dgn



BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1910 WEST LAFAYETTE AVE.
JACKSONVILLE, IL 62650
PHONE: 217-245-4146 FAX: 217-245-4149
IL DESIGN FIRM REGISTRATION NO. 184-000852

USER NAME	= dnuholl
PLOT SCALE	= \$\$CALE\$
PLOT DATE	= 8/1/2024

DESIGNED -	DSR
DRAWN -	DSR
CHECKED -	WJS
DATE -	AUGUST 2, 2024

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
WHITE HEATH ROAD (OLD 47)

SCALE: SHEET 6 OF 7 SHEETS STA. TO STA.

FAI RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	8
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES				CONSTR. CODE
				RURAL 4-LANE / INTERSTATE / Piatt COUNTY 90% FED / 10% STATE FAI 72
				BRIDGE
				0010
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	S.N. 074-0088
70300100	SHORT TERM PAVEMENT MARKING	FOOT	79	79
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	26	26
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	2400	2400
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2037.5	2037.5
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2400	2400
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	29	29
* 78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	2	2
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	800	800
* X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	874	874
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	226	226
X5040100	PRECAST BRIDGE APPROACH SLAB	SQ FT	1910	1910
X5080530	BAR TERMINATORS	EACH	492	492
X6010003	PIPE DRAIN REMOVAL	FOOT	49	49

* DENOTES SPECIALTY ITEM

SUMMARY OF QUANTITIES

CONSTR. CODE

RURAL 4-LANE / INTERSTATE / PIATT COUNTY
90% FED / 10% STATE
FAI 72

BRIDGE

0010

S.N. 074-0088

[illegible]

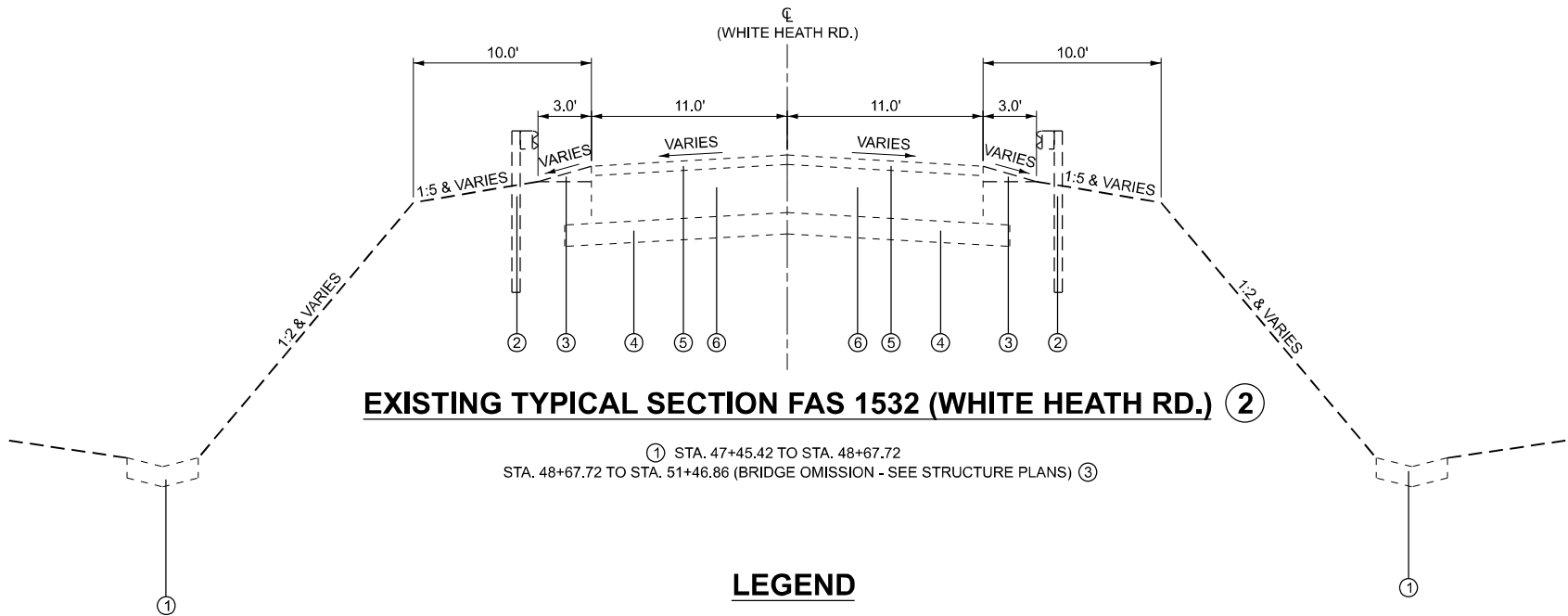
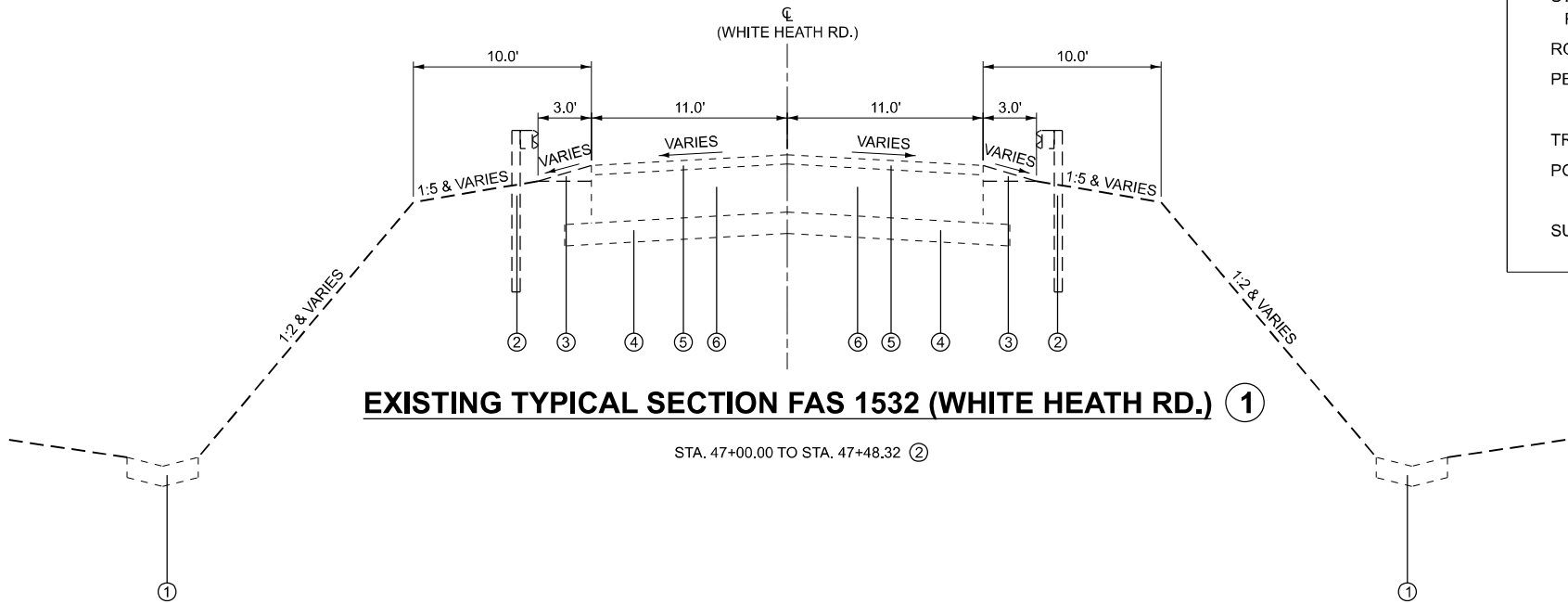
* DENOTES SPECIALTY ITEM

Ø 0042

BA BENTON & ASSOCIATES, INC. CONSULTING ENGINEERS / LAND SURVEYORS 1970 WEST LAFAYETTE AVE. JACKSONVILLE, IL 62650 PHONE: 217-245-4146 FAX: 217-245-4149 IL DESIGN FIRM REGISTRATION NO. 104-000652	USER NAME = druhoill	DESIGNED - DSR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES WHITE HEATH ROAD (OLD 47)					F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALES	DRAWN - SR	REVISED -							72	74-69BR	PIATT	78	9
	PLOT DATE = 7/30/2024	CHECKED - WJS	REVISED -		CONTRACT NO. 70629									
		DATE - AUGUST 2, 2024	REVISED -											
					SCALE:	SHEET 7	OF 7	SHEETS	STA.	TO STA.				

REV. 9/30/24 REV. 8/28/24

STRUCTURAL DESIGN TRAFFIC		YEAR	<u>2017</u>
PV =	94.9%	SU =	4.4%
		MU =	0.7%
ROAD / STREET CLASSIFICATION		CLAS	<u>III</u>
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE			
P =	<u>50%</u>	S =	<u>50%</u>
		M =	<u>50%</u>
TRAFFIC FACTOR	Actual TF =	0.07	Minimum TF = <u>NO MIN</u>
PG GRADE	Top Binder = <u>PG 64-22</u>	Lower Binder = <u>PG 64-22</u>	
	Surface = <u>PG 64-22</u>		
SUBGRADE SUPPORT RATING			
SSR= POOR		(Sta <u>47+00.00</u> to Sta. <u>53+00.00</u>)	



LEGEND

- ① EXISTING PAVED DITCH

② EXISTING GUARDRAIL

③ EXISTING AGGREGATE WEDGE SHOULDER

④ EXISTING SUB-BASE GRANULAR MATERIAL, 4"

⑤ EXISTING HMA RESURFACING (1 1/2")

⑥ EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, 9"

⑦ EXISTING CONCRETE CURB

⑧ EXISTING HMA SHOULDERS, 8"
- Ⓐ PROPOSED EMBANKMENT

Ⓑ PROPOSED AGGREGATE SHOULDER, TYPE B 4"

Ⓒ PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS

Ⓓ PROPOSED HOT-MIX ASPHALT SHOULDER 7.5"

Ⓔ PROPOSED POLYMERIZED HOT-MIX BINDER COURSE, IL-19.0,N50 (VARIES 2.25-4.5")

Ⓕ PROPOSED BITUMINOUS MATERIALS (TACK COAT) (BETWEEN ALL HMA LIFTS NOT SHOWN)

Ⓖ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG,MIX"D",N50 (VARIES 1.0"-3.5")

Ⓗ PROPOSED HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 7.5"

Ⓘ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT 12"

Ⓝ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)

Ⓚ PROPOSED CONCRETE CURB (SPECIAL)

Ⓛ PROPOSED PAVEMENT REMOVAL

Ⓜ PROPOSED PAVED SHOULDER REMOVAL

Ⓝ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 1.75"

Ⓞ PROPOSED EARTH EXCAVATION

Ⓟ PROPOSED HOT-MIX BINDER COURSE, IL-19.0,N50 (VARIES 2.25-4.0")

MODEL: TYPICAL [Sheet]
FILE NAME: P:\2025\703-3 - 70629 White Heath\70629 Section 74-69 BR/CADD Sheets\DS70629-shh-typical.dgn



BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1910 WEST LAFAYETTE AVE.
CHICAGO, ILL. 60604
PHONE: 312.715.1146 FAX: 312.715.1148
ILL. DESIGN FIRM REGISTRATION NO. 154-000052

USER NAME =	druhol	DESIGNED -	DSR	REVISED -	
DRAWN -	DSR	REVISED -			
PLOT SCALE =	SSCALE\$	CHECKED -	WJS	REVISED -	
PLOT DATE =	8/1/2024	DATE -	AUGUST 2, 2024	REVISED -	

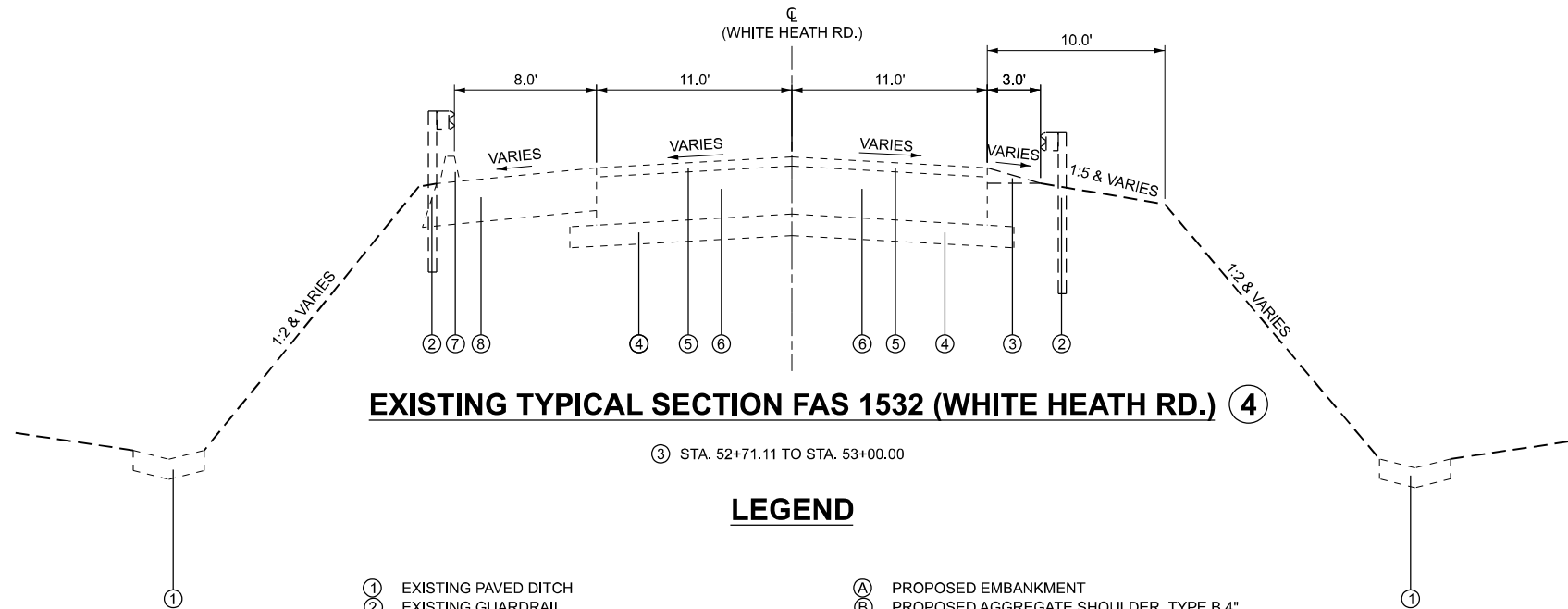
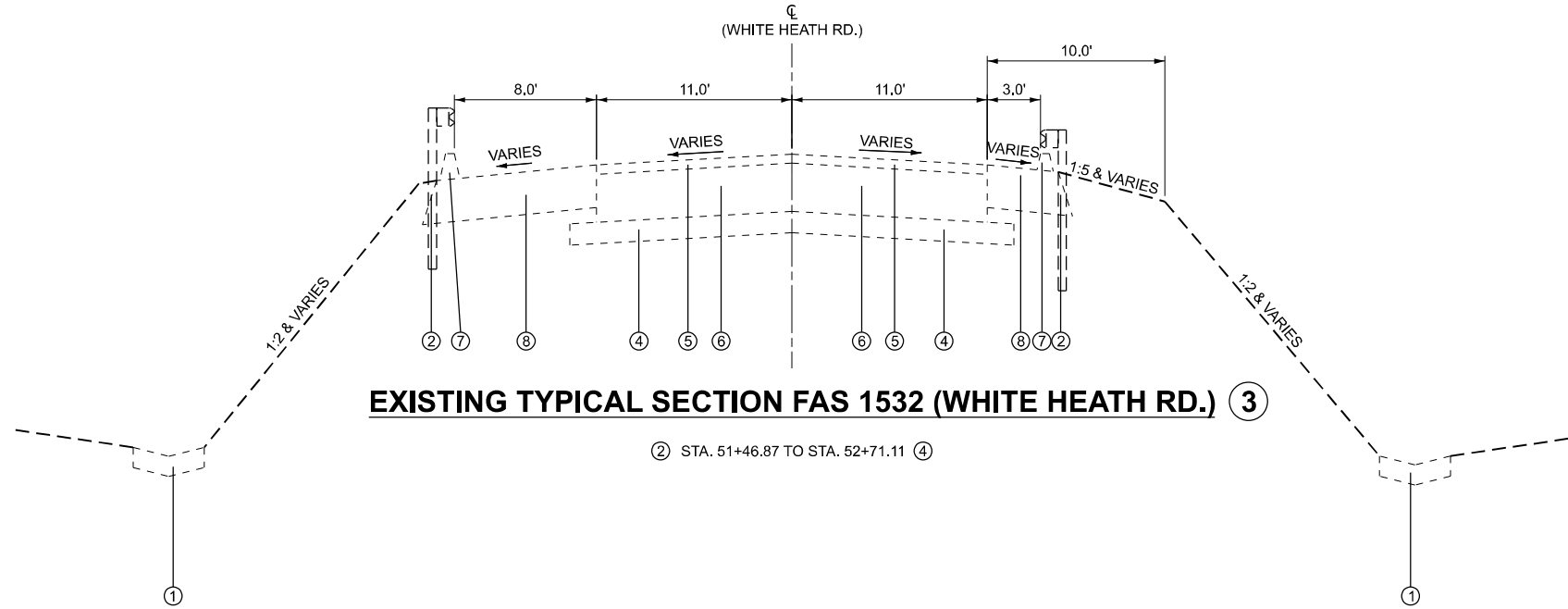
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
WHITE HEATH ROAD (OLD 47)

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	10
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

MODEL: Typical-1 [Sheet]
FILE NAME: P:\22E3703-3-70629 White Heath\70629 Section 74-69 BR\CAADD Sheets\DE70629-shb-typical.dgn



LEGEND

- | | | | |
|---|--|---|---|
| ① | EXISTING PAVED DITCH | A | PROPOSED EMBANKMENT |
| ② | EXISTING GUARDRAIL | B | PROPOSED AGGREGATE SHOULDER, TYPE B 4" |
| ③ | EXISTING AGGREGATE WEDGE SHOULDER | C | PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS |
| ④ | EXISTING SUB-BASE GRANULAR MATERIAL, 4" | D | PROPOSED HOT-MIX ASPHALT SHOULDER 7.5" |
| ⑤ | EXISTING HMA RESURFACING (1 1/4") | E | PROPOSED POLYMERIZED HOT-MIX BINDER COURSE, IL-19.0, N50 (VARIES 2.25-4.5") |
| ⑥ | EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, 9" | F | PROPOSED BITUMINOUS MATERIALS (TACK COAT) (BETWEEN ALL HMA LIFTS NOT SHOWN) |
| ⑦ | EXISTING CONCRETE CURB | G | PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX"D", N50 (VARIES 1.0"-3.5") |
| ⑧ | EXISTING HMA SHOULDERS, 8" | H | PROPOSED HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 7.5" |
| | | I | PROPOSED AGGREGATE SUBGRADE IMPROVEMENT 12" |
| | | J | PROPOSED BITUMINOUS MATERIALS (PRIME COAT) |
| | | K | PROPOSED CONCRETE CURB (SPECIAL) |
| | | L | PROPOSED PAVEMENT REMOVAL |
| | | M | PROPOSED PAVED SHOULDER REMOVAL |
| | | N | PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 1.75" |
| | | O | PROPOSED EARTH EXCAVATION |
| | | P | PROPOSED HOT-MIX BINDER COURSE, IL-19.0, N50 (VARIES 2.25-4.0") |



USER NAME = dnuholl	DESIGNED - DSR	REVISED -
	DRAWN - DSR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - WJS	REVISED -
PLOT DATE = 8/1/2024	DATE - AUGUST 2, 2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS WHITE HEATH ROAD (OLD 47)

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	11
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

MODEL: Typical-2 [Sheet]
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BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1910 WEST LARAYETTE AVE.
JACKSONVILLE, IL 62650
PHONE: 217-215-1146 FAX: 217-215-1148
IL DESIGN FIRM REGISTRATION NO. 164-000052

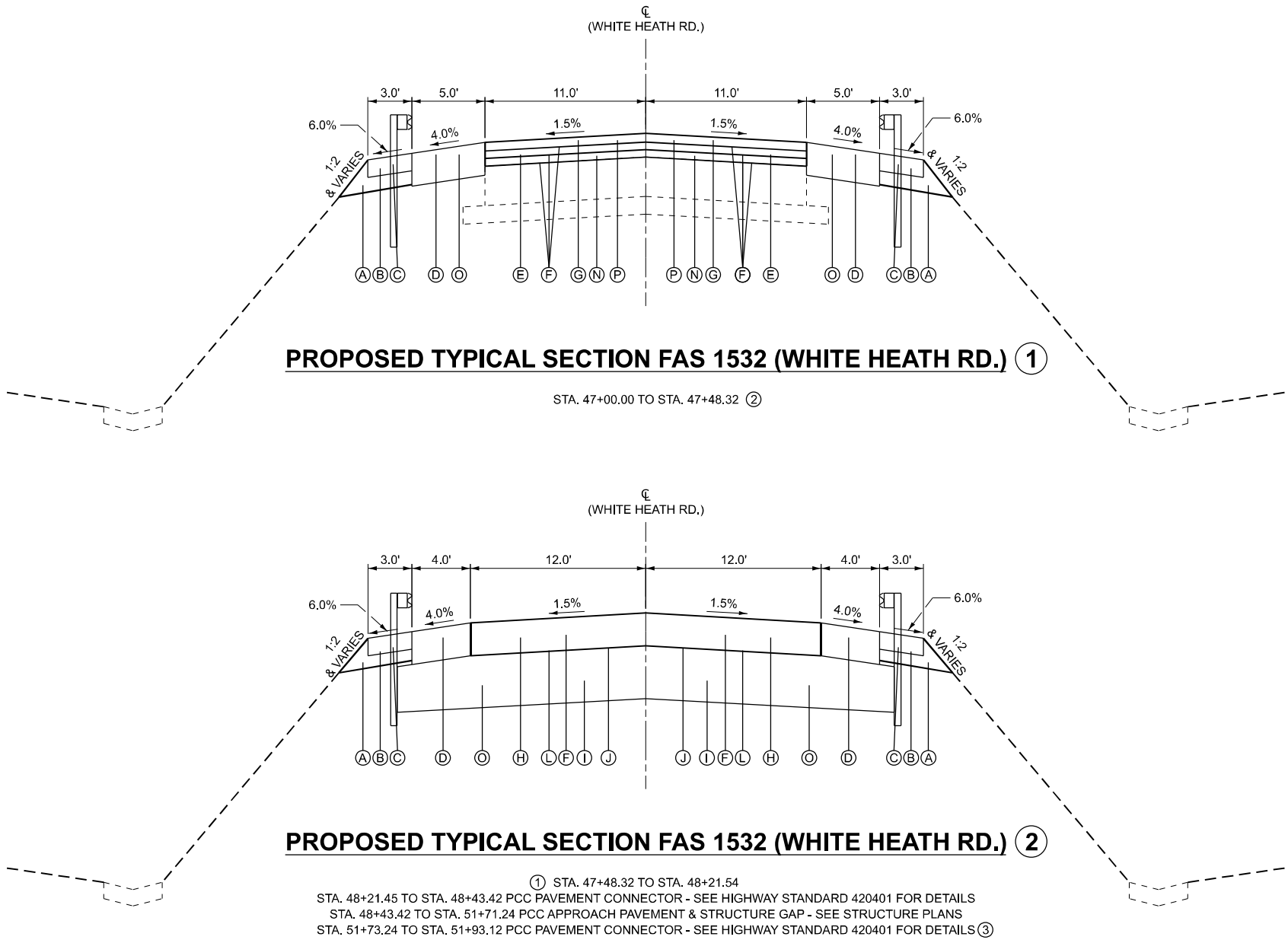
USER NAME =	druholl	DESIGNED -	DSR	REVISED -	
		DRAWN -	DSR	REVISED -	
PLOT SCALE =	SSCALE\$	CHECKED -	WJS	REVISED -	
PLOT DATE =	8/1/2024	DATE -	AUGUST 2, 2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
WHITE HEATH ROAD (OLD 47)

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	12
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				



LEGEND

- | | | | |
|---|--|-----|--|
| ① | EXISTING PAVED DITCH | (A) | PROPOSED EMBANKMENT |
| ② | EXISTING GUARDRAIL | (B) | PROPOSED AGGREGATE SHOULDER, TYPE B 4" |
| ③ | EXISTING AGGREGATE WEDGE SHOULDER | (C) | PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS |
| ④ | EXISTING SUB-BASE GRANULAR MATERIAL, 4" | (D) | PROPOSED HOT-MIX ASPHALT SHOULDER 7.5" |
| ⑤ | EXISTING HMA RESURFACING (1 1/2") | (E) | PROPOSED POLYMERIZED HOT-MIX BINDER COURSE, IL-19.0, N50 (VARIES 2.25-4.5") |
| ⑥ | EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, 9" | (F) | PROPOSED BITUMINOUS MATERIALS (TACK COAT) (BETWEEN ALL HMA LIFTS NOT SHOWN) |
| ⑦ | EXISTING CONCRETE CURB | (G) | PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "D", N50 (VARIES 1.0"-3.5") |
| ⑧ | EXISTING HMA SHOULDERS, 8" | (H) | PROPOSED HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 7.5" |
| | | (I) | PROPOSED AGGREGATE SUBGRADE IMPROVEMENT 12" |
| | | (J) | PROPOSED BITUMINOUS MATERIALS (PRIME COAT) |
| | | (K) | PROPOSED CONCRETE CURB (SPECIAL) |
| | | (L) | PROPOSED PAVEMENT REMOVAL |
| | | (M) | PROPOSED PAVED SHOULDER REMOVAL |
| | | (N) | PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 1.75" |
| | | (O) | PROPOSED EARTH EXCAVATION |
| | | (P) | PROPOSED HOT-MIX BINDER COURSE, IL-19.0, N50 (VARIES 2.25-4.0") |



BA BENTON & ASSOCIATES, INC. CONSULTING ENGINEERS / LAND SURVEYORS 1910 WEST SAGEHTE AVE. JACKSONVILLE, IL 62659 PHONE: 217-247-1116 FAX: 217-247-1119 IL DESIGN FIRM REGISTRATION NO. 155-009952	USER NAME = gslurgeon	DESIGNED - DSR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS WHITE HEATH ROAD (OLD 47)				F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALE\$	CHECKED - WJS	REVISED -		72	74-69BR	PIATT	78	13				
	PLOT DATE = 8/1/2024	DATE - AUGUST 2, 2024	REVISED -		CONTRACT NO. 70629								
	SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.				ILLINOIS FED. AID PROJECT								

SCHEDULE OF QUANTITIES

REMOVAL SCHEDULE													
LOCATION				LENGTH	20100500	40600982	44000100	44000156	44004000	44004250	60500060	X6010003	X6650206
					TREE REMOVAL, ACRES	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, 1.75"	PAVED DITCH REMOVAL (SEE NOTE 2)	PAVED SHOULDER REMOVAL	REMOVING INLETS	PIPE DRAIN REMOVAL	WOVEN WIRE FENCE TO BE REMOVED AND RE-ERECTED
STA.	TO	ST.	LT/RT	FOOT	(ACRE)	(SQ YD)	(FOOT)	(SQ YD)	(FOOT)	(SQ YD)	(EACH)	(FOOT)	(FOOT)
43+85.00	TO	49+18.33	LT	533.33	0.33								56
45+00.00	TO	48+75.00	RT	375.00	0.38								
51+50.00	TO	54+35.41	RT	285.41	0.44								
51+62.17	TO	53+50.00	LT	187.83	0.18								62
45+00.00	TO	48+75.00	RT	375.00					40				
51+62.17	TO	53+50.00	LT	187.83					20		1	48.5	
52+16.43	TO	52+22.43	RT	6.00					61.5				
47+00.00	TO	47+10.00		10.00		24.4							
47+10.00	TO	47+48.32		38.32				93.7					
47+48.32	TO	48+67.48		119.16			291.3						
48+67.48	TO	51+46.87		279.39									
51+46.87	TO	52+71.11		124.24			303.7						
52+71.11	TO	52+90.00		18.89				46.2		187.2			
52+90.00	TO	53+00.00		10.00		24.4							
SUBTOTAL					1.33	48.8	595.0	139.9	121.5	187.2	1.0	48.5	118.0
TOTAL					1.25	49	595	140	122	187	1	49	118

NOTE 1: ASSUMED 10% PAVED DITCH REMOVAL AND REPLACEMENT FOR PROPOSED TREE REMOVAL IMPACTS

PAVING SCHEDULE												
LOCATION			LENGTH	30300112	40600275	40600290	40603080	40603230	40604110	40701831	48203027	66201120
				AGGREGATE SUBGRADE IMPROVEMENT 12"	BITUMINOUS MATERIAL (PRIME COAT)	BITUMINOUS MATERIAL (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "D", N50	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 7.5"	HOT-MIX ASPHALT SHOULDER, 7.5"	CONCRETE SHOULDER CURB
STA.	TO	STA.	FOOT	(SQ YD)	(POUND)	(POUND)	(TON)	(TON)	(TON)	(SQ YD)	(SQ YD)	(FOOT)
47+00.00	TO	47+03.69	3.69		9.2	5.9			1.1		4.1	
47+03.69	TO	47+13.71	10.02		25.1	21.5			4.3		11.1	
47+13.71	TO	47+34.05	20.34		50.9	43.7	9.4		3.5		22.6	
47+34.05	TO	47+48.32	14.27		35.7	38.5	4.4	6.1	2.4		15.9	
47+48.32	TO	48+21.45	73.13	268.1	585.0	117.0				195.0	65.0	
48+21.45	TO	48+43.33	21.88	69.2	PCC CONNECTOR PAVEMENT - SEE PCC PAVING SCHEDULE							
48+43.33	TO	51+71.33	328.00	APPROACH PAVEMENT / STRUCTURE GAP - SEE STRUCTURE PLANS SN 074-0088								
51+71.33	TO	51+93.21	21.88	69.2	PCC CONNECTOR PAVEMENT - SEE PCC PAVING SCHEDULE							
51+93.21	TO	52+71.11	77.90	302.9	467.4	132.4				207.7	86.6	77.9
52+71.11	TO	52+80.34	9.23		23.1	24.9	2.8	3.9	1.6		10.3	9.2
52+80.34	TO	52+91.65	11.31		28.3	24.3	5.2		1.9		12.6	11.3
52+91.65	TO	52+97.73	6.08		15.2	13.1			2.6		6.8	6.1
52+97.73	TO	53+00.00	2.27		5.7	3.6			0.7		2.5	2.3
SUBTOTAL				709.4	1245.6	424.9	21.8	10.0	18.1	402.7	237.5	106.8
TOTAL				709	1246	425	22	10	18	403	238	107

EARTHWORK SCHEDULE						
LOCATION	CUT AREA	FILL AREA	20200100	EARTH	EMBANKMENT	BALANCE WASTE (+) SHORTAGE (-)
			EARTH EXCAVATION	EXCAVATION ADJ. FOR 25% SHRINKAGE		
STA.	(SQ FT)	(SQ FT)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
47+00.00	9.55	1.90	0.0	0.0	0.0	0.0
47+25.00	6.46	5.19	7.4	5.6	3.3	2.3
47+50.00	13.57	6.64	9.3	7.0	5.5	1.5
47+75.00	9.36	11.79	10.6	8.0	8.5	-0.5
48+00.00	7.17	18.34	7.7	5.8	13.9	-8.1
48+16.45	6.22	22.06	4.1	3.1	12.3	-9.2
48+25.00	0.47	39.91	1.1	0.8	9.8	-9.0
48+50.00	1.63	45.47	1.0	0.8	39.5	-38.7
48+75.00	0.00	170.47	0.8	0.6	100.0	-99.4
48+80.29	0.00	123.87	0.0	0.0	28.8	-28.8
SN 074-0088						
51+34.37	0.00	94.00	0.0	0.0	0.0	0.0
51+50.00	1.56	251.81	0.5	0.4	100.1	-99.7
51+75.00	2.13	43.95	1.7	1.3	136.9	-135.6
51+98.21	2.18	28.00	1.9	1.4	30.9	-29.5
52+00.00	2.18	27.91	0.1	0.1	1.9	-1.8
52+25.00	2.84	23.19	2.3	1.7	23.7	-22.0
52+50.00	4.08	18.37	3.2	2.4	19.2	-16.8
52+75.00	4.21	21.16	3.8	2.9	18.3	-15.4
53+00.00	10.44	5.36	6.8	5.1	12.3	-7.2
SUBTOTAL			62.3	47.0	564.9	-517.9
TOTAL			60	45	565	-520

PCC PAVING SCHEDULE							
LOCATION			LENGTH	31200100	42000060	42000080	
				STABILIZED SUBBASE 4"	WELDED WIRE REINFORCEMENT	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	
STA.	TO	ST.	(FOOT)	(SQ YD)	(SQ YD)	(SQ YD)	
47+00.00	TO	47+48.32	48.32		SEE HMA PAVING SCHEDULE		
47+48.32	TO	48+21.45	73.13		SEE HMA PAVING SCHEDULE		
48+21.45	TO	48+43.33	21.88	66.2	77.80	77.80	
48+43.33	TO	51+71.33	328.00	APPROACH PAVEMENT / STRUCTURE GAP SEE STRUCTURE PLANS SN 074-0088			
51+71.33	TO	51+93.21	21.88	66.2	77.80	77.80	
51+93.21	TO	52+71.11	77.90		SEE HMA PAVING SCHEDULE		
52+71.11	TO	53+00.00	28.89		SEE HMA PAVING SCHEDULE		
SUBTOTAL				132.4	155.60	155.60	
TOTAL				132	156	156	

SEEDING SCHEDULE									
LOCATION			SIDE	LENGTH (FOOT)	25000210	25000400	25000500	25000600	25100630
					SEEDING, CLASS 2A	NITROGEN FERTILIZER	POTASSIUM FERTILIZER	PHOSPHORUS FERTILIZER	EROSION CONTROL BLANKET (SQ YD)
STA.	TO	STA.	LT/RT	(FOOT)	(ACRE)	(POUND)	(POUND)	(POUND)	(SQ YD)
43+85.00	TO	49+18.33	LT	533.33	0.38	34.2	34.2	34.2	1822.8
45+00.00	TO	48+75.00	RT	375.00	0.42	37.8	37.8	37.8	2043.3
51+10.00	TO	54+35.41	RT	325.41	0.48	43.2	43.2	43.2	2334.6
51+62.17	TO	53+50.00	LT	187.83	0.19	17.1	17.1	17.1	918.9
SUBTOTAL					1.47	132.3	132.3	132.3	7119.6
TOTAL					1.5	132	132	132	7120

AGGREGATE SHOULDER SCHEDULE				
LOCATION			LENGTH	48101498
				AGGREGATE SHOULDERS, TYPE B 4"
STA.	TO	ST.	FOOT	(SQ YD)
47+00.00	TO	48+51.54	151.54	101.0
48+51.54	TO	48+65.29	13.75	4.6
48+65.29	TO	51+49.38	284.09	STRUCTURE OMISSION
51+49.38	TO	51+63.12	13.74	4.6
51+63.12	TO	53+00.00	136.88	91.2
SUBTOTAL			201.4	
TOTAL			201	

SCHEDULE OF QUANTITIES

DRAINAGE SCHEDULE									
LOCATION		SIDE	LENGTH	54262712	60100945	60300305	60615910	61000050	61000335
				METAL FLARED END SECTIONS 12"	PIPE DRAINS 12"	FRAMES AND LIDS TO BE ADJUSTED	PAVED DITCH, TYPE A-22	CONCRETE THRUST BLOCKS	TYPE G INLET BOX
STA.	OFFSET	LT/RT	(FOOT)	(EACH)	(FOOT)	(EACH)	(FOOT)	(EACH)	(EACH)
WHITE HEATH ROAD									
48+16.45	14.88	LT			42.6			1	1
	14.88	RT			38.7			1	1
	54.89	LT		1					
	51.70	RT		1					
51+98.21	14.88	LT			48.5			1	1
	14.88	RT			59.7			1	1
	61.05	LT		1					
	71.39	RT		1					
I-72									
1286+00.00	0.86	RT				1			
45+00.00	TO	48+75.00	RT	375.00			40		
51+62.17	TO	53+50.00	LT	187.83			20		
SUBTOTAL					4	189.5	1	60	4
TOTAL					4	190	1	60	4

TEMPORARY CONCRETE BARRIER SCHEDULE						
LOCATION			LENGTH	SIDE	70400100	70600260
					TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
STA.	TO	STA.	(FOOT)	LT/RT	(FOOT)	(EACH)
1284+50.00	TO	1290+62.50	612.50	LT	612.5	
1282+37.50	TO	1288+00.00	562.50	RT	562.5	
1285+00.00	TO	1288+00.00	300.00	RT	300.0	
1285+00.00	TO	1290+62.50	562.50	LT	562.5	
STA.	OFFSET			LT/RT		
1285+37.50	29.75			RT		1
1285+00.00	95.63			RT		1
1290+62.50	57.90			LT		1
1290+62.50	29.82			LT		1
SUBTOTAL					2037.5	4.0
TOTAL					2037.5	4

SAND MODULE IMPACT ATTENUATOR SCHEDULE			
LOCATION	64300450	64301090	X6431110
	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	ATTENUATOR BASE	REMOVE ATTENUATOR BASE
STA.	(EACH)	(SQ YD)	(EACH)
I-72			
	1.0	27.3	1
	1.0	27.3	1
	2.0	54.6	2.0
TOTAL	2	55	2

EROSION CONTROL SCHEDULE						
LOCATION			28000250	28000305	28000400	28000500
			TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION
STA.	TO	STA.	(POUND)	(FOOT)	(FOOT)	(EACH)
43+00.00	TO	44+00.00	147.0		52.84	
44+00.00	TO	45+00.00			148.04	
45+00.00	TO	46+00.00			200.67	
46+00.00	TO	47+00.00			200.53	
47+00.00	TO	48+00.00			200.47	
48+00.00	TO	49+00.00			232.07	
49+00.00	TO	50+00.00			85.94	
50+00.00	TO	51+00.00			41.58	
51+00.00	TO	52+00.00			173.90	
52+00.00	TO	53+00.00			200.90	
53+00.00	TO	54+00.00			195.85	
54+00.00	TO	55+00.00			44.05	
STA.	OFFSET	SIDE				
48+74.22	67.75	RT				1
50+41.41	72.38	RT				1
51+34.23	79.19	RT		10.0		
SUBTOTAL			147.0	10.0	1776.8	2
TOTAL			147	10	1777	2

NOTE 1: SINGLE APPLICATION WAS ASSUMED FOR QUANTITY ESTIMATION

GUARDRAIL SCHEDULE												
LOCATION			SIDE	LENGTH	LENGTH OF NEED	63000001	63100045	63100085	63100167	63200310	78200005	78200010
						STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT	TRAFFIC BARRIER TERMINAL, TYPE 2	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REMOVAL	GUARDRAIL REFLECTORS, TYPE A	BARRIER WALL REFLECTORS, TYPE B
STA.	TO	STA.	LT/RT	(FOOT)	STA.	(FOOT)	(EACH)	(EACH)	EACH	(FOOT)	(EACH)	(EACH)
WHITE HEATH ROAD												
43+71.61	TO	48+72.51	LT	500.90						500.9		
41+90.89	TO	42+28.39		37.50	42+10.60				1		7	
42+28.39	TO	48+28.39		600.00		600.0						
48+28.39	TO	48+65.89		37.50				1				
43+56.86	TO	48+59.97	RT	503.11						503.1		
42+75.58	TO	43+03.59		37.50	42+10.60				1		7	
43+03.59	TO	48+14.64		512.50		512.5						
48+14.64	TO	48+52.14		37.50				1				
51+42.08	TO	54+40.00	RT	666.90						666.9		
51+48.78	TO	51+86.28		37.50				1			7	
51+86.28	TO	54+40.00		637.50	53+56.75, ±406'RT	637.5						
54+40.00	TO	54+40.00		12.50			1					
51+45.55	TO	62+53.72	LT	1108.17						1108.2		
51+62.52	TO	52+00.02		37.50				1			8	
52+00.02	TO	62+50.02		1050.00		1050.0						
62+50.02	TO	62+87.52		37.50	63+39.40				1			
SN 074-0088												
48+52.14	TO	51+48.78	RT	296.64								1
48+65.89	TO	51+62.52	LT	296.63								1
I-72												
1285+48.20	TO	1286+70.68	RT	122.48						122.5		
1286+14.30	TO	1288+98.53	LT	284.23						284.2		
SUBTOTAL						2800.0	1	4	3	3185.8	29	2
TOTAL						2800.0	1	4	3	3186	29	2

MODEL: Schedules-1 [Sheet]
FILE NAME: P:\22E3703-3 - 70629 White Heath\70629 Section 74-69 BR/CADD Sheets\0570629-shs-schedules.dgn

BENCHMARKS

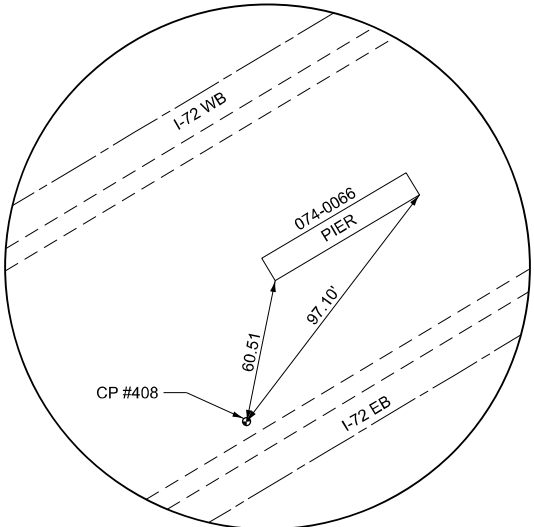
BM #4907-1 - CHISELED "□" ON TOP OF NORTHEAST WINGWALL OF STRUCTURE NUMBER 074-0026, EL: 722.985

BM #4907-2 - CHISELED "□" ON TOP OF NORTHEAST CORNER OF MEDIAN INLET, STATION 1285+60.50, 1.00' LEFT, EL: 702.584

CONTROL POINTS					
POINT NUMBER	NORTHING	EASTING	ELEVATION	STATION	OFFSET
400	1244327.465	929576.994	723.64	43+02.25	39.21' RT
401	1244310.594	930097.539	725.29	48+21.57	20.31' LT
402	1244086.051	930696.773	714.79	54+41.71	105.48' RT
403	1244126.447	930804.382	712.82	55+42.05	58.73' RT
404	1244225.830	930559.581	717.58	52+91.30	15.30' LT
405	1244239.992	931528.321	688.73	62+53.57	70.67' RT
406	1244325.381	931500.227	689.37	62+58.68	19.07' LT
411	1244222.232	930275.481	702.61	50+11.94	36.52' RT
418	1244299.637	930309.174	701.46	50+31.99	45.48' LT
419	1244884.601	930770.804	704.23	54+47.42	696.48' LT
420	1244902.588	930611.821	703.99	52+27.77	691.09' LT
421	1243639.422	929782.222	707.92	46+24.90	694.68' RT

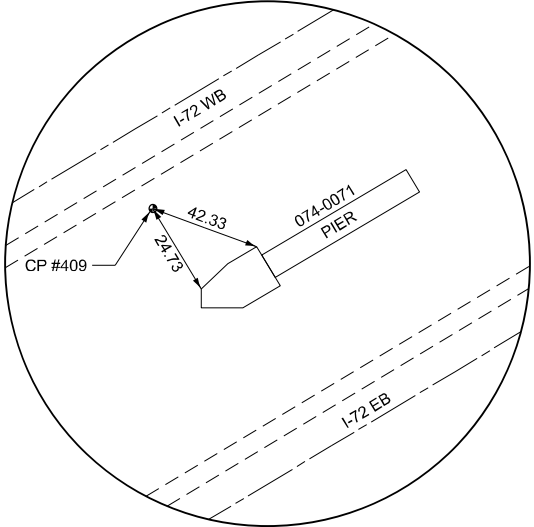
OLD 47 ALIGNMENT CONTROL POINTS				
POINT NUMBER	STATION	NORTHING	EASTING	DESCRIPTION
N/A	39+00.00	1244382.135	929178.754	POT
28	39+48.32	1244382.214	929227.078	PC
121	42+01.84	1244374.275	929480.426	RAMP "A" (STA: 100+00)
122	42+73.17	1244369.035	929551.560	RAMP "B" (STA: 216+70)
100	42+80.82	1244382.751	929559.577	PI - IP SET
N/A	46+11.68	1244326.246	929887.241	PT - DISK
N/A	52+96.60	1244209.851	930562.199	PC
123	54+61.51	1244189.491	930725.790	RAMP "C" (STA: 300+00)
124	55+32.51	1244185.470	930796.671	RAMP "D" (STA: 419+83.25)
136	59+66.23	1244096.054	931222.093	PI
N/A	65+76.10	1244450.470	931790.246	PT - DISK
98	77+19.11	1245055.426	932760.035	POT - MAG NAIL

I-72 ALIGNMENT CONTROL POINTS				
POINT NUMBER	STATION	NORTHING	EASTING	DESCRIPTION
N/A	1275+00	1243305.485	929648.735	POT
N/A	1296+08.07	1245072.491	930798.363	PC



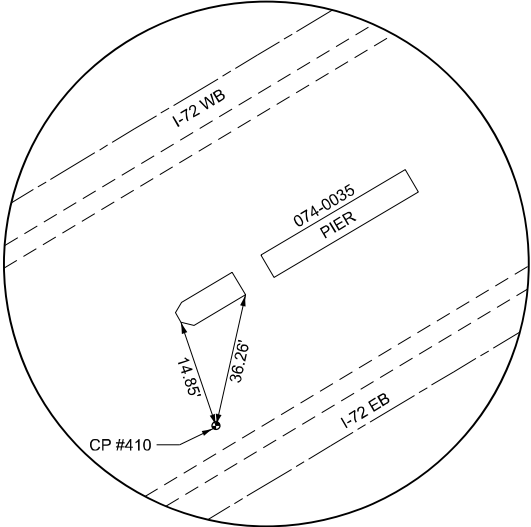
CONTROL POINT #408 - OFF SITE

IRON PIN W/CAP
N: 1229683.851
E: 913687.363



CONTROL POINT #409 - OFF SITE

IRON PIN W/CAP
N: 1233390.773
E: 918951.954



CONTROL POINT #410- OFF SITE

IRON PIN W/CAP
N: 1240036.474
E: 925956.019

MODEL: ATB_Ties-1 [Sheet]
FILE NAME: P:\22E\703-3 - 70629 White Heath\70629 Section 74-69 BR/CADD Sheets\DS70629-shb-ATB.dgn



BENTON & ASSOCIATES, INC.

CONSULTING ENGINEERS / LAND SURVEYORS

1910 WEST LAFAYETTE AVE.

CHICAGO, ILL. 60604

PHONE: 312.751.1146 FAX: 312.751.1148

ILL. LICENSE NO. 0216-000052

USER NAME =	druhall	DESIGNED -	DSR	REVISED -	
		DRAWN -	RDS	REVISED -	
PLOT SCALE =	SSCALE\$	CHECKED -	WJS	REVISED -	
PLOT DATE =	7/30/2024	DATE -	AUGUST 2, 2024	REVISED -	

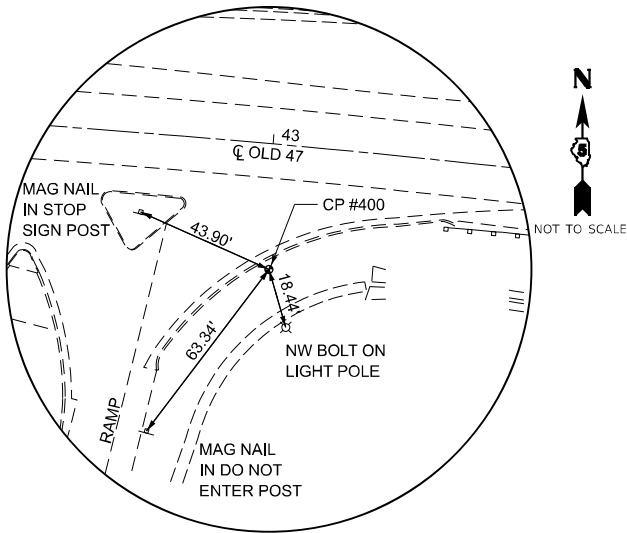
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENTS, TIES AND BENCHMARKS
WHITE HEATH ROAD (OLD 47)

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

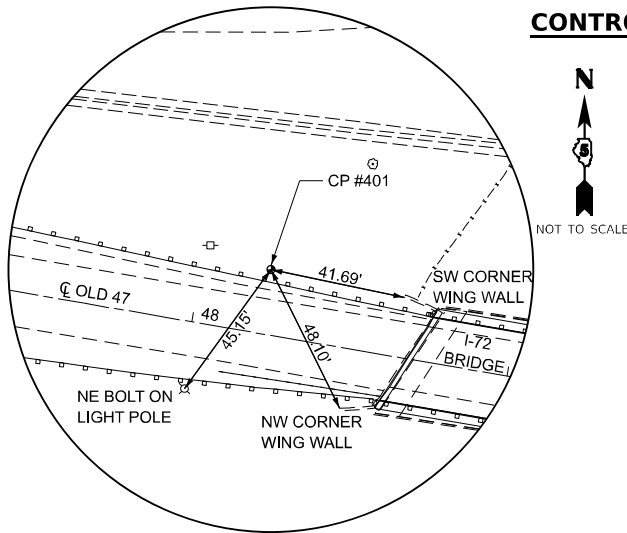
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	16
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

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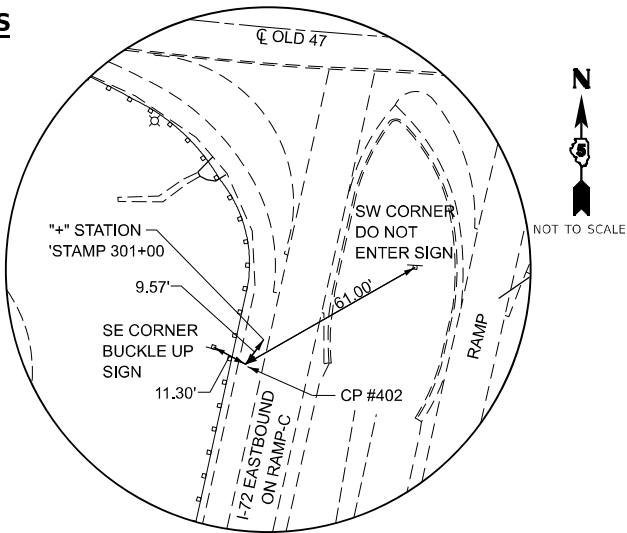
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E: 929576.994



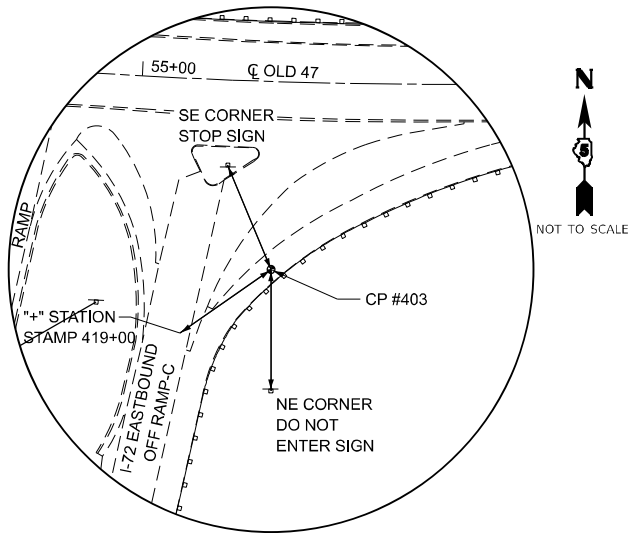
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N: 1244310.594
E: 930097.539



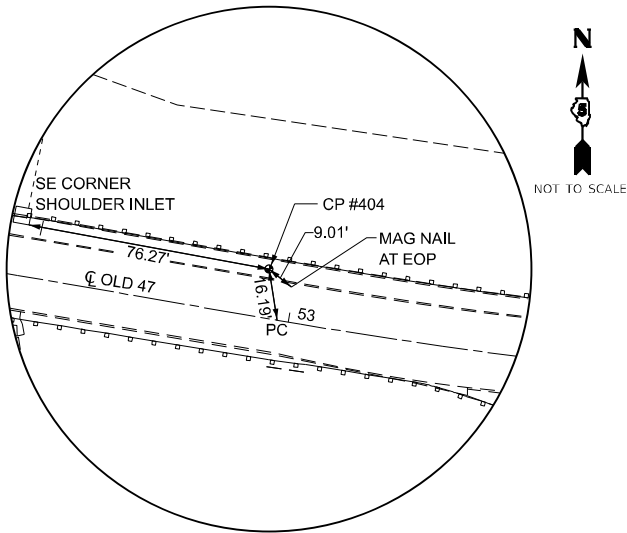
CONTROL POINT #402

MAG NAIL IN CONCRETE SHOULDER
N: 1244086.051
E: 930696.773



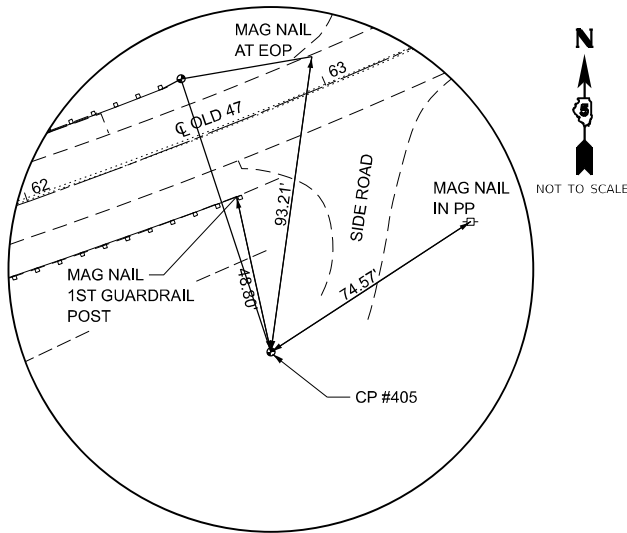
CONTROL POINT #403

MAG NAIL IN CONCRETE SHOULDER
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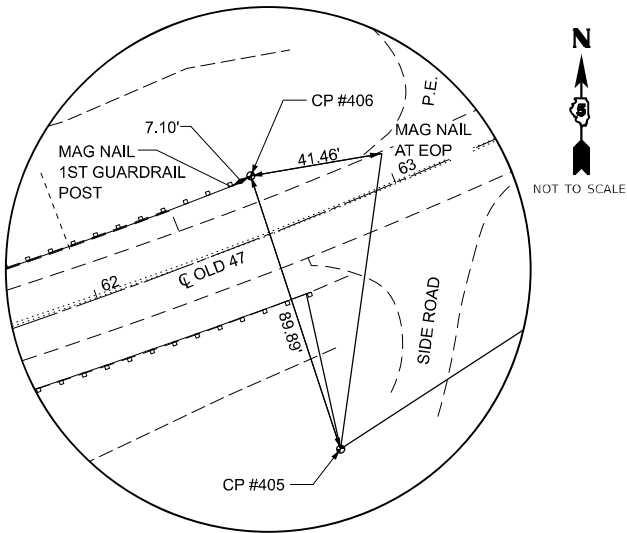
CONTROL POINT #404

IRON PIN W/CAP
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E: 930559.581



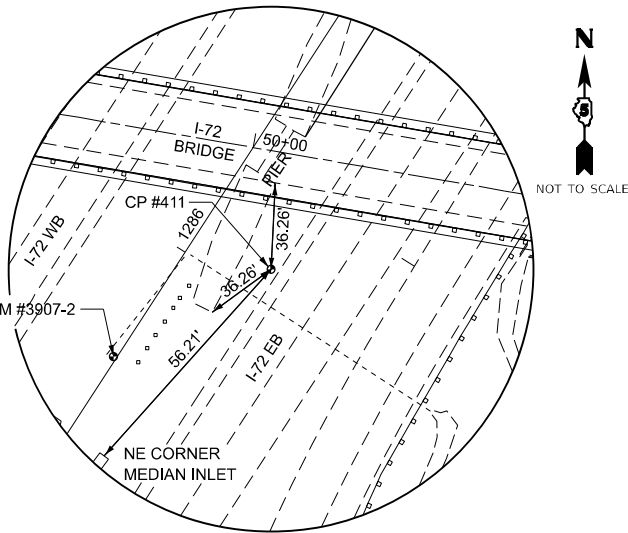
CONTROL POINT #405

IRON PIN W/CAP
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E: 931528.321



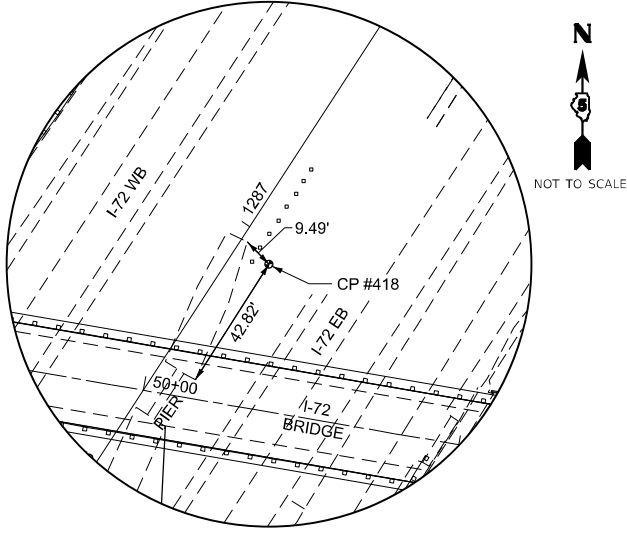
CONTROL POINT #406

IRON PIN W/CAP
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E: 931500.227



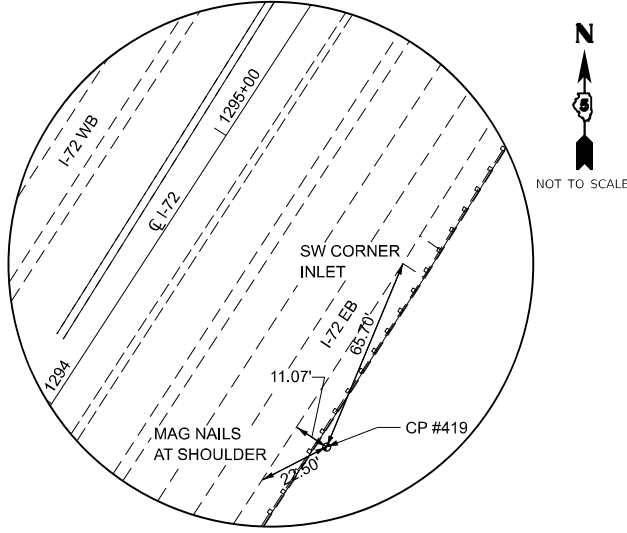
CONTROL POINT #411

IRON PIN W/CAP
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E: 930275.481



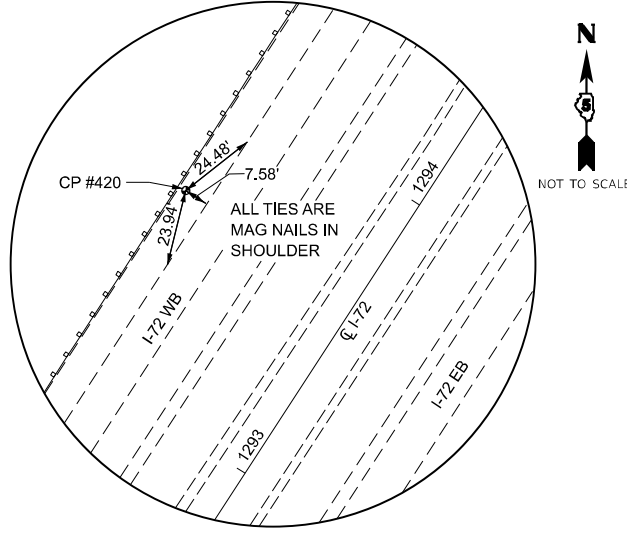
CONTROL POINT #418

IRON PIN W/CAP
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E: 930309.174



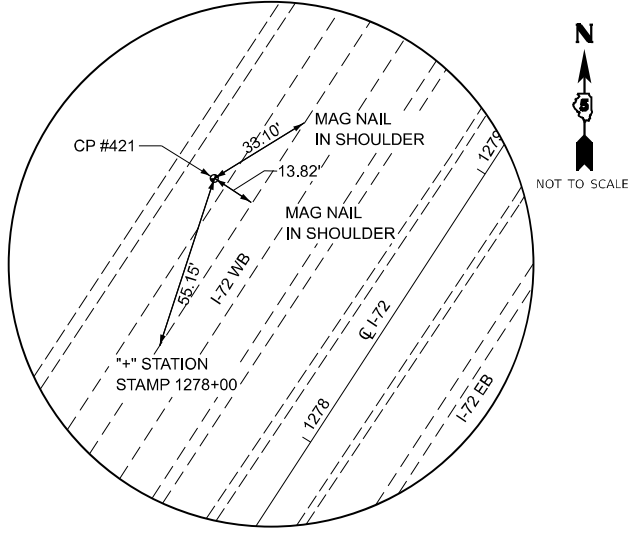
CONTROL POINT #419

IRON PIN W/CAP
N: 1244884.601
E: 930770.804



CONTROL POINT #420

MAG NAIL IN SHOULDER
N: 1244902.588
E: 930611.821



CONTROL POINT #421

IRON PIN W/CAP
N: 1243639.422
E: 929782.222



BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1310 WEST LAMAR AVE.
CHICAGO, ILL. 60606
PHONE: 312.251.1100 FAX: 312.251.1101
ILL. DESIGN 1984 REGISTRATION NO. 124-000022

USER NAME = dnuholl
PLOT SCALE = SSCALE\$
PLOT DATE = 7/30/2024

DESIGNED - DSR
DRAWN - RDS
CHECKED - WJS
DATE - AUGUST 2, 2024

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENTS, TIES AND BENCHMARKS
WHITE HEATH ROAD (OLD 47)

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	17
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

SECTION 21, T. 19 N., R. 6 E., 3rd P.M.

SECTION 28, T. 19 N., R. 6 E., 3rd P.M.

EX CURVE
PI STA = 59+66.23
 $\Delta = 41^{\circ}44'25''$ (LT)
D = $03^{\circ}15'44''$
R = 1,756.34'
T = 669.63'
L = 1279.51'
E = 123.32'
e = _____
PC STA = 52+96.60
PT STA = 65+76.10
S.E. (EXISTING) = ± 0.048 FT. PER FT.
S.E. ATTAINED STA. 51+83.77 TO 53+34.71

EX CURVE
PI STA = 42+80.82
 $\Delta = 09^{\circ}52'37''$ (RT)
D = $01^{\circ}29'20''$
R = 3,848.10'
T = 332.50'
L = 663.35'
E = 14.34'
e = _____
PC STA = 39+48.32
PT STA = 46+11.68

MODEL: ATB-Plan [Sheet]
FILE NAME: P:\22E\703-3 - 70629 White Heath\70629 Section 74-69 BRICADD Sheets\70629-shh-ATB.dgn



BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1910 WEST LAFAYETTE AVE.
BLOOMINGTON, IL 61701
PHONE: 217-245-1149 FAX: 217-245-1149
ILL. DESIGN FIRM REGISTRATION NO. 184-000852

USER NAME	= dnuholl
DESIGNED	- DSR
DRAWN	- RDS
PLOT SCALE	= \$SCALE\$
PLOT DATE	= 7/30/2024

REVISED	-
REVISED	-
REVISED	-
REVISED	-

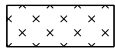
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENTS, TIES AND BENCHMARKS
WHITE HEATH ROAD (OLD 47)

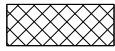
SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	18
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

LEGEND



DENOTES TREE REMOVAL



DENOTES PAVEMENT REMOVAL (FULL DEPTH)



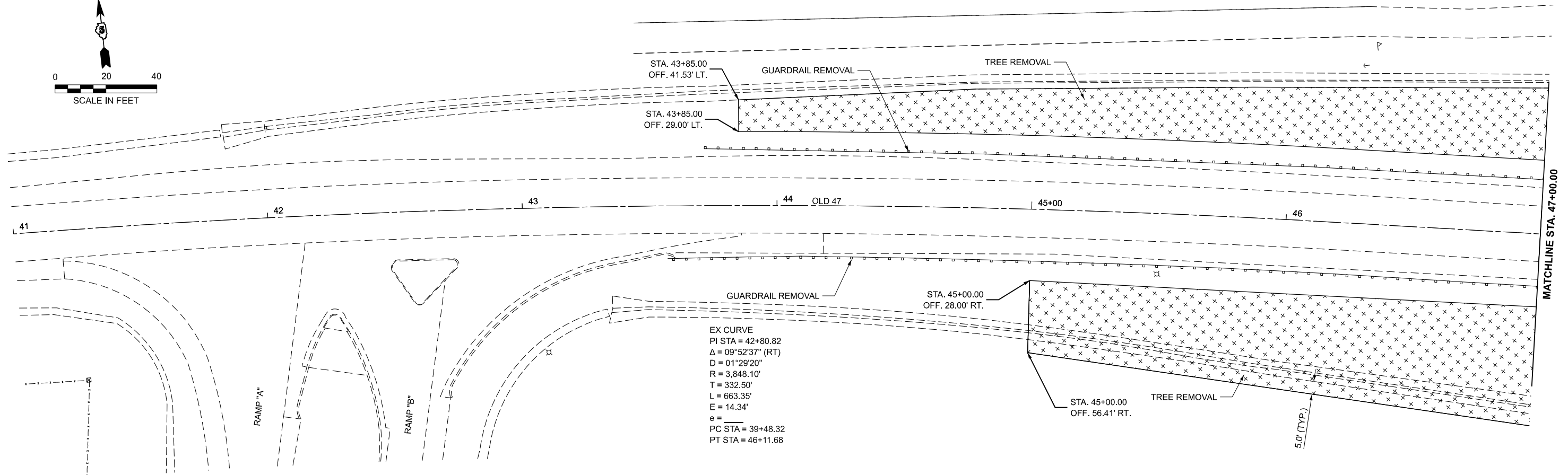
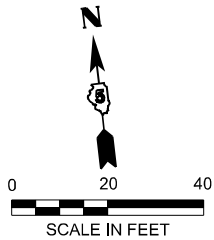
DENOTES HMA SURFACE REMOVAL, 1 3/4"



DENOTES HMA SURFACE REMOVAL (BUTT JOINT)



DENOTES HMA SHOULDER REMOVAL



MODEL: White Heath Rd Sht
 FILE NAME: P:\22E3703-3 - 70629 White Heath\70629 Section 74-69 BR\CADD Sheets\ID570629-sht-removal.dgn



BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1970 WEST LAFAYETTE AVE.
JACKSONVILLE, FL 32265
PHONE: 217-245-4146 FAX: 217-245-4149
IL DESIGN FIRM REGISTRATION NO. 184-000852

USER NAME	=	druholl
-----------	---	---------

--	--

PLOT SCALE	=	\$SCALE\$
------------	---	-----------

PLOT DATE	= 8/1/202
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DESIGNED -	DSR
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DRAWN	-	RDS
-------	---	-----

CHECKED	-	WJS
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DATE	-	AUG
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REVISÉ -

REVISÉ -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

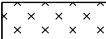
REMOVAL PLANS

WHITE HEATH ROAD (OLD 47)

SCALE:	SHEET 1	OF 4	SHEETS	STA. 41+00.00	TO STA. 47+00.00
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F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	19
		CONTRACT NO. 70629		
		ILLINOIS	FED. AID PROJECT	

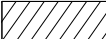
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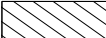
DENOTES TREE REMOVAL



DENOTES PAVEMENT REMOVAL (FULL DEPTH)



DENOTES HMA SURFACE REMOVAL, 1 3/4"



DENOTES HMA SURFACE REMOVAL (BUTT JOINT



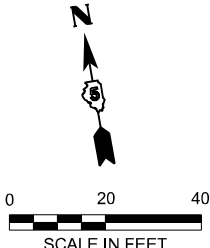
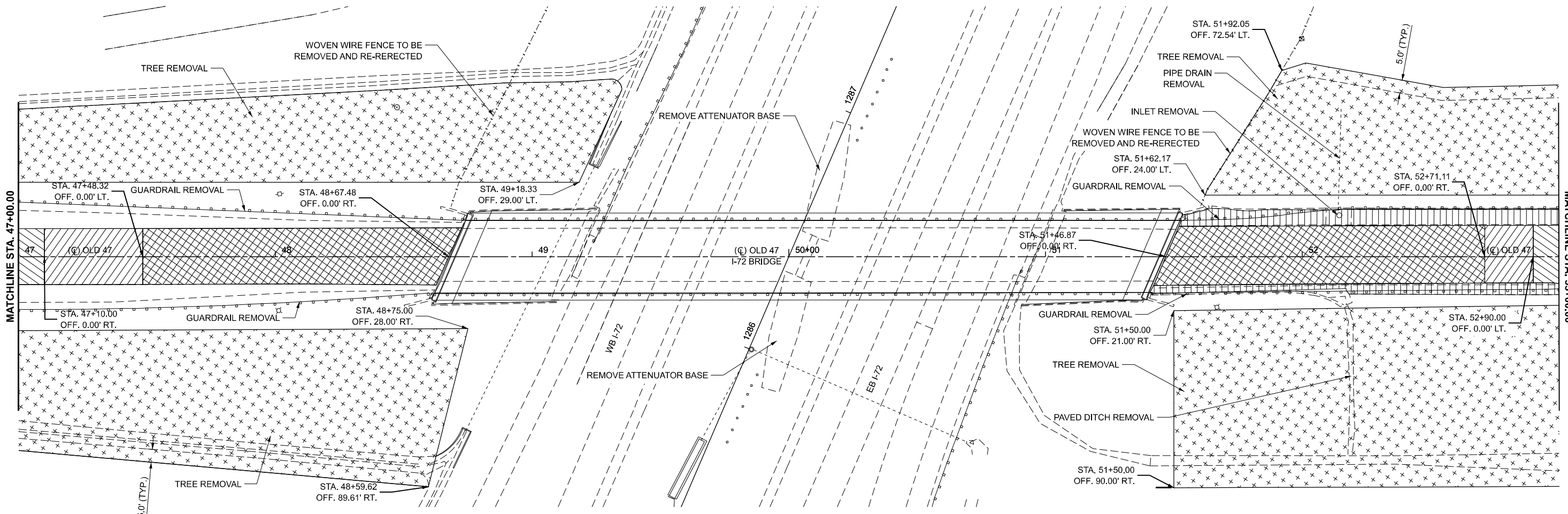
DENOTES HMA SHOULDER REMOVAL

NOTES:

REMOVAL OF EXISTING APPROACH SLABS ARE INCLUDED
IN THE COST OF "PAVEMENT REMOVAL (FULL DEPTH)".

THE EXISTING APPROACH PAVEMENT IS SHOWN ON THE ATTACHED SHEET.

THE ORIGINAL STRUCTURE PLANS WILL BE INCLUDED WITH THE PS&E SUBMITTAL FOR INCLUSION ON THE LETTING SITE UNDER "ADDITIONAL INFORMATION" FOLDER.



EX CURVE
PI STA = 59+66.23
 $\Delta = 41^\circ 44' 25''$ (LT)
D = $03^\circ 15' 44''$
R = 1,756.34'
T = 669.63'
L = 1279.51'
E = 123.32'
e = _____
PC STA = 52+96.60
PT STA = 65+76.10

MODEL: White Heath Rd-1 Sht
FILE NAME: P:\22E3703-3 - 70629 White Heath\70629 Section 74-69 BR/CADD Sheets\ID570629-sht-removal.dgn



BENTON & ASSOCIATES, INC
CONSULTING ENGINEERS / LAND SURVEYORS
1970 WEST LAFAYETTE AVE.
JACKSONVILLE, FL 32205
PHONE: 217-245-4146 FAX: 217-245-4149
IL DESIGN FIRM REGISTRATION NO. 184-000852

USER NAME = druho

PLOT SCALE = SSCAL

PLOT DATE = 04/02

DESIGNED -

DRAWN _____

CHECKED

DATE _____

REVISÉ

REVISED

REVISÉ

REVISER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLANS

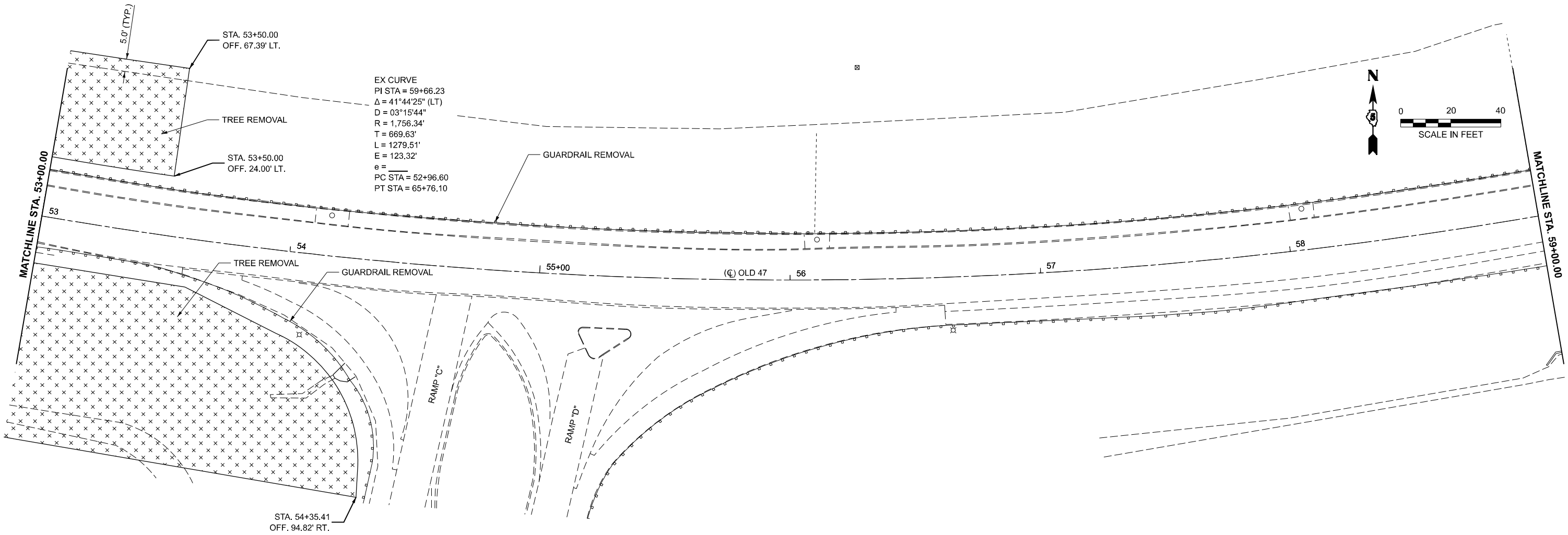
WHITE HEATH ROAD (OLD 47)

SCALE:	SHEET 2	OF 4	SHEETS	STA. 47+00.00	TO STA. 53+00.00
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[illegible]

LEGEND

- DENOTES TREE REMOVAL
- DENOTES PAVEMENT REMOVAL (FULL DEPTH)
- DENOTES HMA SURFACE REMOVAL, 1 3/4"
- DENOTES HMA SURFACE REMOVAL (BUTT JOINT)
- DENOTES HMA SHOULDER REMOVAL

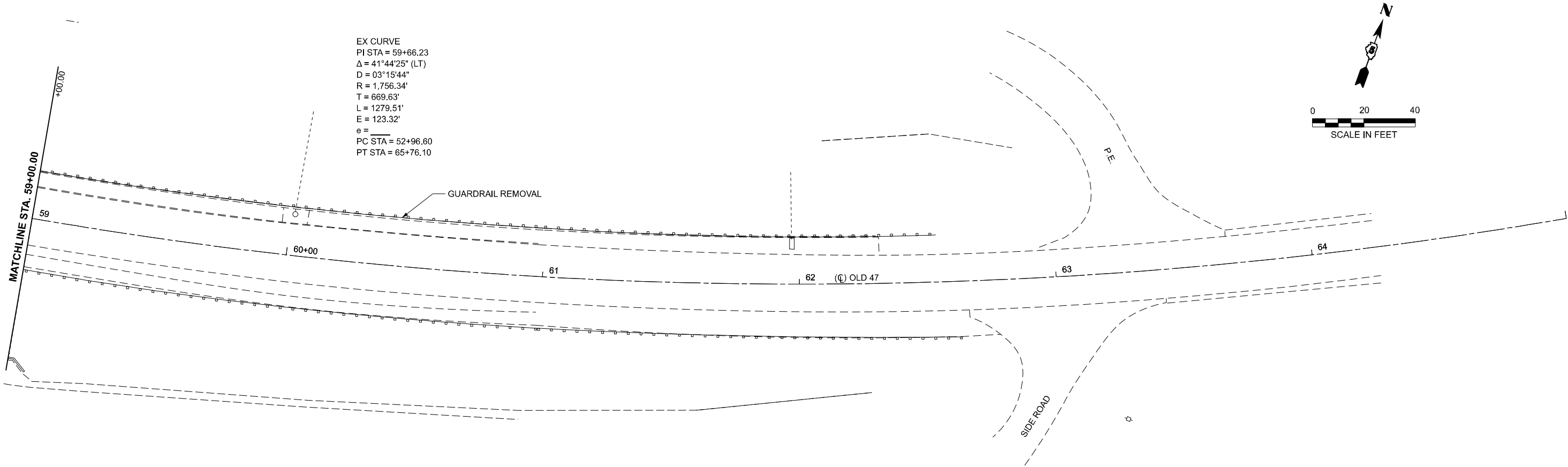


MODEL: White Heath Rd-2 Shr
FILE NAME: P:\22E3703-3 - 70629 White Heath\70629 Section 74-69 BR\CADD Sheets\570629-shr-removal.dgn

 BENTON & ASSOCIATES, INC. CONSULTING ENGINEERS / LAND SURVEYORS 1910 WEST LAFAYETTE AVE. BLOOMINGTON, IL 61820 PHONE: 217-245-1146 FAX: 217-245-1149 IL DESIGN FIRM REGISTRATION NO. 184-000852	USER NAME = dnuholl	DESIGNED - DSR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL PLANS WHITE HEATH ROAD (OLD 47)	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - RDS	REVISED -							
	PLOT SCALE = \$SCALE\$	CHECKED - WJS	REVISED -							
	PLOT DATE = 8/2/2024	DATE - AUGUST 2, 2024	REVISED -							
	SCALE: SHEET 3 OF 4 SHEETS STA. 53+00.00 TO STA. 59+00.00									
							CONTRACT NO. 70629			
							ILLINOIS FED. AID PROJECT			

LEGEND

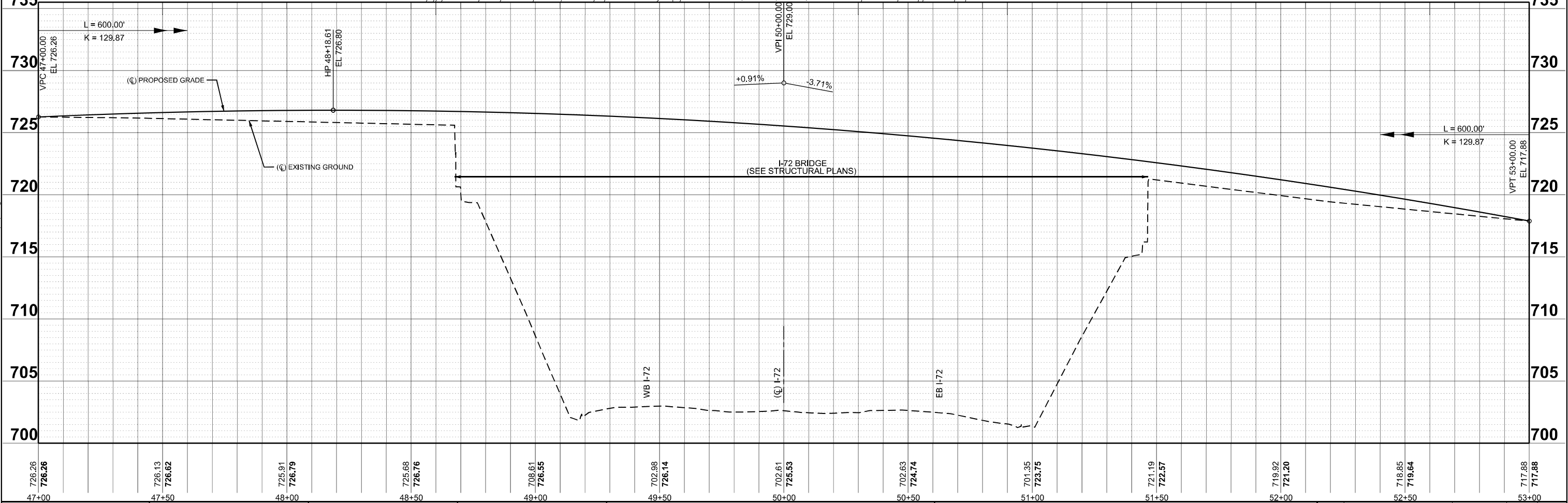
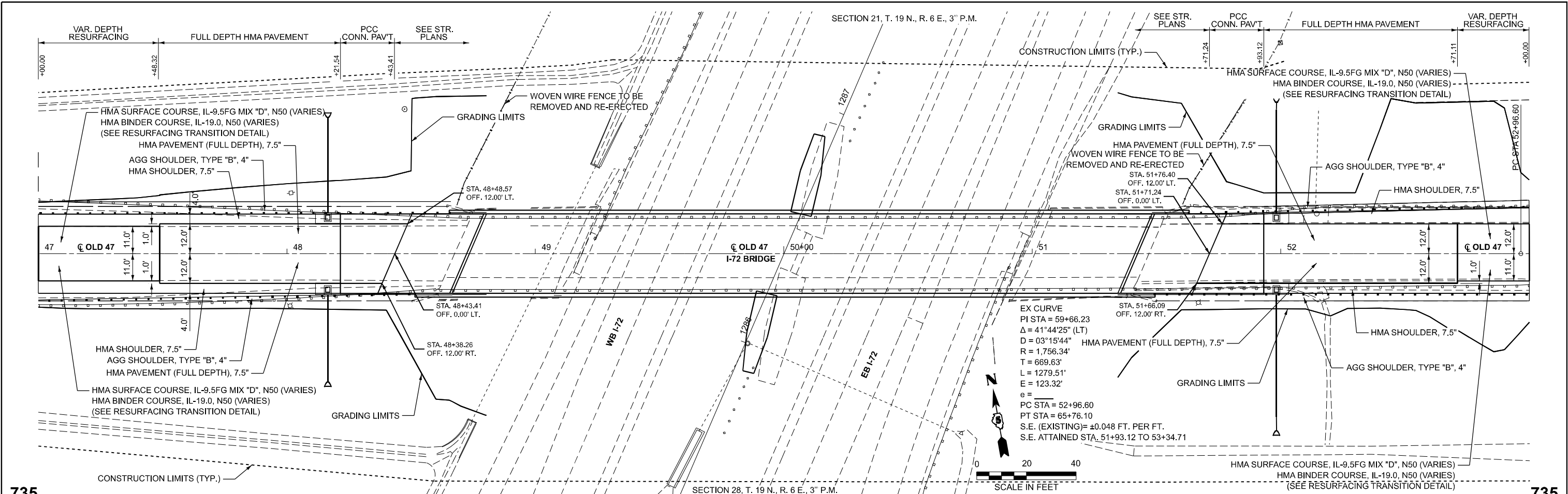
- DENOTES TREE REMOVAL
- DENOTES PAVEMENT REMOVAL (FULL DEPTH)
- DENOTES HMA SURFACE REMOVAL, 1 3/4"
- DENOTES HMA SURFACE REMOVAL (BUTT JOINT)
- DENOTES HMA SHOULDER REMOVAL



MODEL: White Heath Rd-3 Sht.
FILE NAME: P:\22E3703-3 - 70629 White Heath\70629 Section 74-69 BR\CA\DD Sheets\DE70629-shr-removal.dgn

BENTON & ASSOCIATES, INC. CONSULTING ENGINEERS / LAND SURVEYORS 1910 WEST LAFAYETTE AVE. BLOOMINGTON, IL 62406 PHONE: 217-245-1149 FAX: 217-245-1149 IL DESIGN FIRM REGISTRATION NO. 184-000852	USER NAME = dnuholl	DESIGNED - DSR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL PLANS WHITE HEATH ROAD (OLD 47)			F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - RDS	CHECKED - WJS	REVISED -					72	74-69BR	PIATT	78	22
	PLOT SCALE = \$SCALE\$	DATE - AUGUST 2, 2024	REVISED -		SCALE: SHEET 4 OF 4 SHEETS STA. 59+00.00 TO STA. 65+00.00			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 8/2/2024							CONTRACT NO. 70629				

MODEL: White Heath Rd Sht
FILE NAME: P:\2023\703-3 - 70629 White Heath\70629 Section 74-69 BR/CADD Sheets\DS70629-shs-pln.pdf.dgn



 BENTON & ASSOCIATES, INC. CONSULTING ENGINEERS / LAND SURVEYORS 1910 WEST LAFALETTE AVE. JACKSONVILLE, IL 61760 PHONE: 217-245-1148 FAX: 217-245-1149 IL DESIGN FIRM REGISTRATION NO. 184-000852	USER NAME = druholl		DESIGNED - DSR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE SHEET (WHITE HEATH RD - SN 074-0088 OVER FAI 72)					F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN - DSR		CHECKED - WJS	REVISED -		SCALE: 1"=20'	SHEET 1	OF 1	SHEETS	STA. 47+00.00	TO STA. 53+00.00	72	74-69BR	PIATT	78	23
	PLOT SCALE = \$SCALE\$		DATE - AUGUST 2, 2024	REVISED -								CONTRACT NO. 70629				
	PLOT DATE = 8/2/2024											ILLINOIS FED. AID PROJECT				

MODEL: OLD_47 - Old47-Plan 1 [Sheet]
FILE NAME: P:\22\23\703-3 - 70629 White Heath\70629 Section 74-69 BRICADD Sheets\0629-shr-Plan.dgn



BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1310 WEST LARAYETTE AVE.
JACKSONVILLE, IL 62650
PHONE: 217-215-1146 FAX: 217-215-1148
ILLINOIS PROFESSIONAL REGISTRATION NO. 156-000052

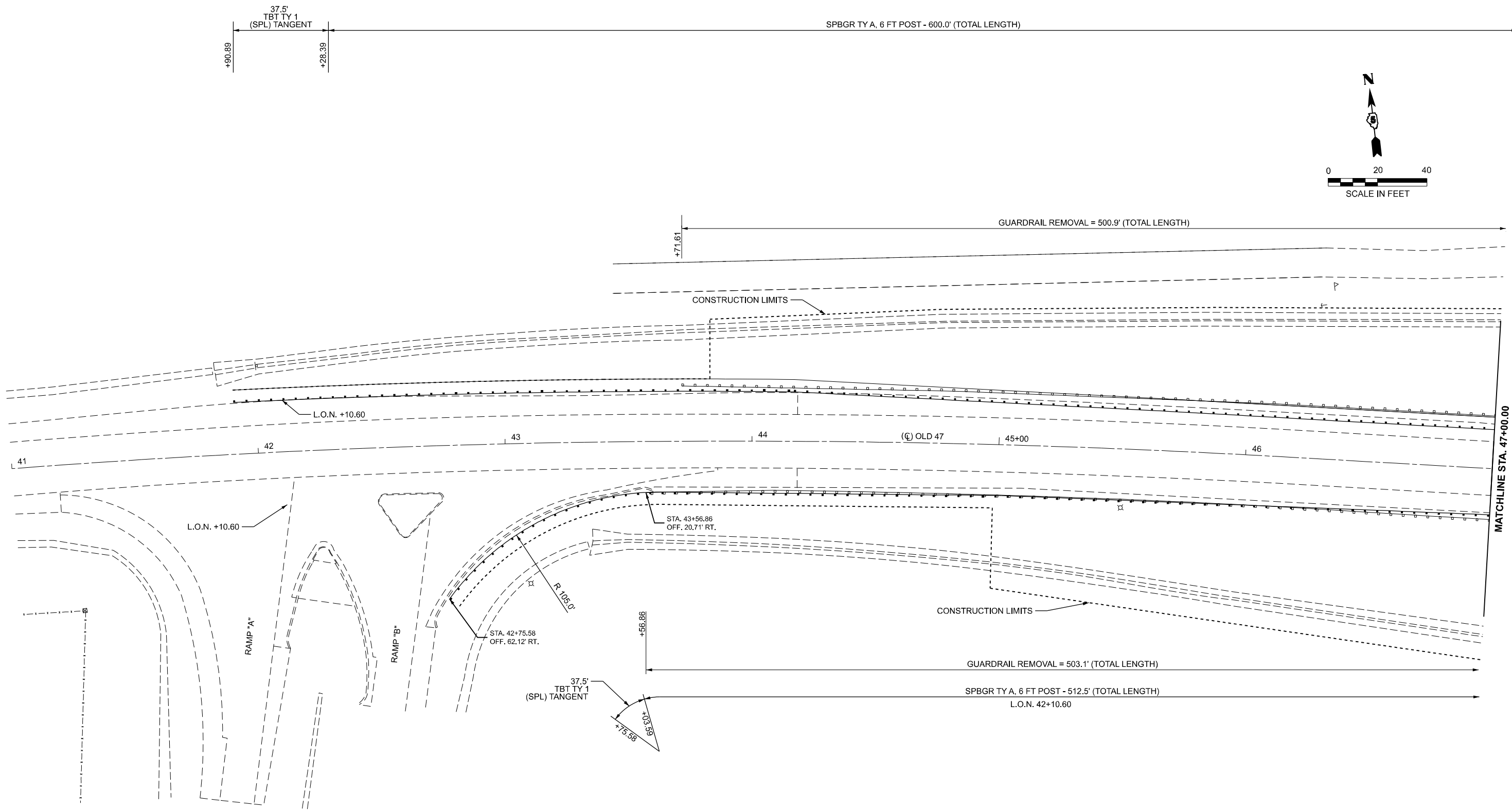
USER NAME =	druhall	DESIGNED -	DSR	REVISED -	
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PLOT SCALE =	SSCALE\$	CHECKED -	WJS	REVISED -	
PLOT DATE =	8/2/2024	DATE -	AUGUST 2, 2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
WHITE HEATH ROAD (OLD 47)

SCALE: 1"=20' SHEET 1 OF 4 SHEETS STA. 41+00.00 TO STA. 47+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	24
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				



MODEL: OLD 47 - Old47-Plan 2 [Sheet]
FILE NAME: P:\22\23\703-3 - 70629 White Heath\70629 Section 74-69 BRICADD Sheets\0629-shh-Plan.dgn



BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1970 WEST LAMARITE AVE.
JACKSONVILLE, IL 62209
PHONE: 217-215-1146 FAX: 217-215-1148
ILLINOIS PROFESSIONAL NO. 154-00052

USER NAME	= dnuholl
DESIGNED	- DSR
DRAWN	- RDS
PLOT SCALE	= \$SCALE\$
PLOT DATE	= 8/2/2024

DESIGNED	- DSR
DRAWN	- RDS
CHECKED	- WJS
DATE	- AUGUST 2, 2024

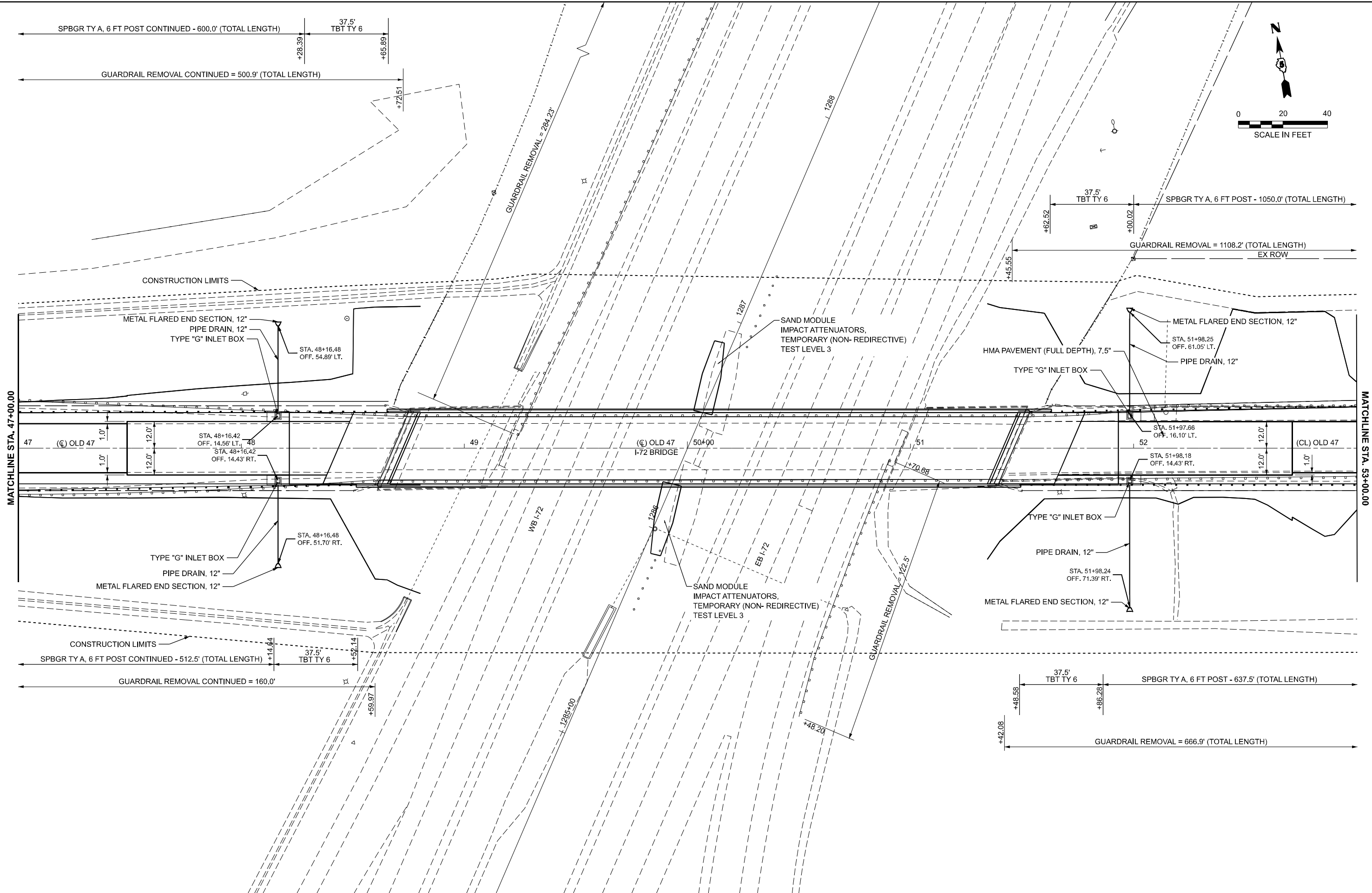
REVISED	-
REVISED	-
REVISED	-
REVISED	-

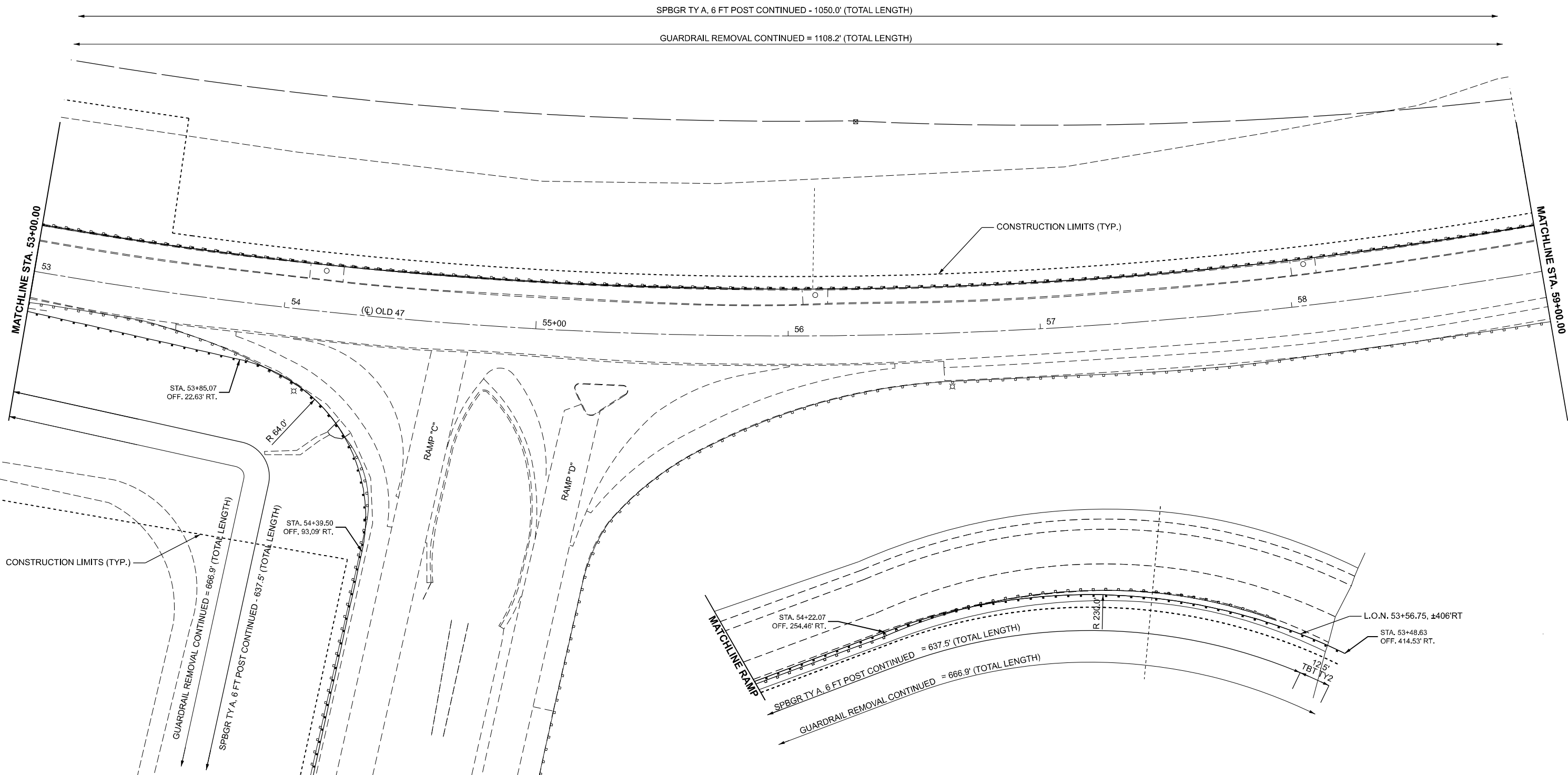
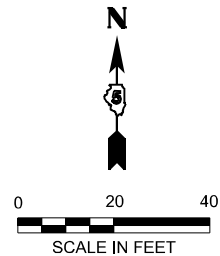
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
WHITE HEATH ROAD (OLD 47)

SCALE: 1"=20' SHEET 2 OF 4 SHEETS STA. 47+00.00 TO STA. 53+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	25
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				





MODEL: OLD 47 - Old 47-Plan 3 [Sheet]
FILE NAME: P:\2223703-3 - 70629 White Heath\70629 Section 74-69 BRICADD Sheets\570629-shh-Plan.dgn



BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1910 WEST JARVIS AVE.
JACKSONVILLE, IL 62530
PHONE: 217-275-1146 FAX: 217-275-1148
ILLINOIS PROFESSIONAL NO. 156-000052

USER NAME	= dnuholl
PLOT SCALE	= \$SCALE\$
PLOT DATE	= 8/2/2024

DESIGNED -	DSR
DRAWN -	RDS
CHECKED -	WJS
DATE -	AUGUST 2, 2024

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
WHITE HEATH ROAD (OLD 47)

SCALE: 1"=20' SHEET 3 OF 4 SHEETS STA. 53+00.00 TO STA. 59+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	26
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

MODEL: OLD 47 - Old47-Plan 4 [Sheet]
FILE NAME: P:\22\23\703-3 - 70629 White Heath\70629 Sheets\DS70629-shh-Plan.dgn

BA

BENTON & ASSOCIATES, INC.

CONSULTING ENGINEERS / LAND SURVEYORS

1910 WEST LARAYETTE AVE.

HICKSVILLE, IL 62550

PHONE: 217-215-1146 FAX: 217-215-1148

IL DESIGN FIRM REGISTRATION NO. 156-000052

USER NAME	= dnuholl	DESIGNED -	DSR	REVISED -	
DRAWN -	RDS	REVIS	ED -		
PLOT SCALE	= \$SCALE\$	CHECKED -	WJS	REVISED -	
PLOT DATE	= 8/2/2024	DATE -	AUGUST 2, 2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
WHITE HEATH ROAD (OLD 47)

SCALE: 1"=20'

SHEET 4 OF 4 SHEETS

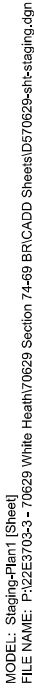
STA. 59+00.00 TO STA. 65+00.00

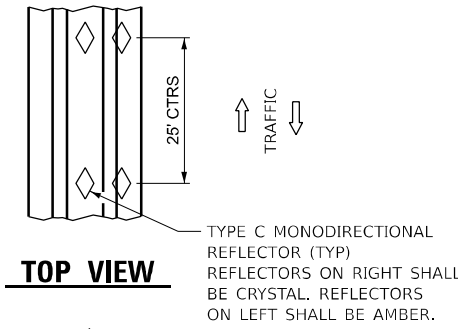
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	27
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

The plan view shows the alignment of White Heath Road (Old 47) from station 59+00.00 to 65+00.00. Key features include:

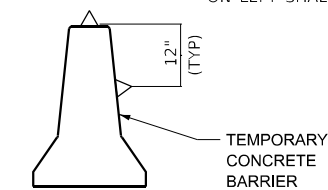
- SPBGR TY A, 6 FT POST - 1150.0' (TOTAL LENGTH)** with **L.O.N. 63+39.40**.
- GUARDRAIL REMOVAL = 1108.2' (TOTAL LENGTH)** with a **+53.72** offset.
- 37.5' TBT TY 1 (SPL) TANGENT** with offsets of **+50.02** and **+87.52**.
- CONSTRUCTION LIMITS (TYP.)** indicated by dashed lines.
- STA. 62+87.52 OFF. 18.50' LT.** marking a specific point on the alignment.
- L.O.N. +39.40** indicating the line of north.
- SIDE ROAD** shown as a dashed line branching off the main alignment.
- P.E.** (Point of Entry) and **φ** (phi) symbols marking specific locations.
- MATCHLINE STA. 59+00.00** at the left end of the section.
- Station markers** at 59, 60+00, 61, 62, 63, and 64.
- (C) OLD 47** indicating the centerline of the old road.

A north arrow pointing towards the top right of the sheet. Below it is a scale bar marked from 0 to 40 feet, with the text **SCALE IN FEET**.

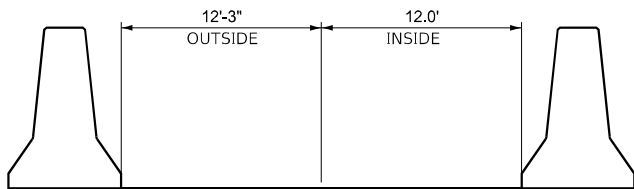
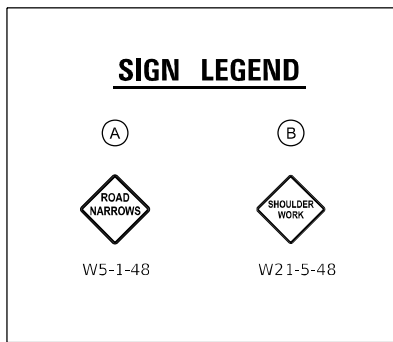




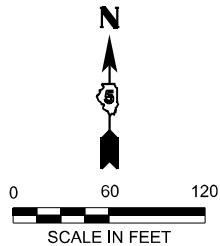
TOP VIEW



BARRIER WALL REFLECTORS



MINIMUM PAVEMENT WIDTH ALLOWED

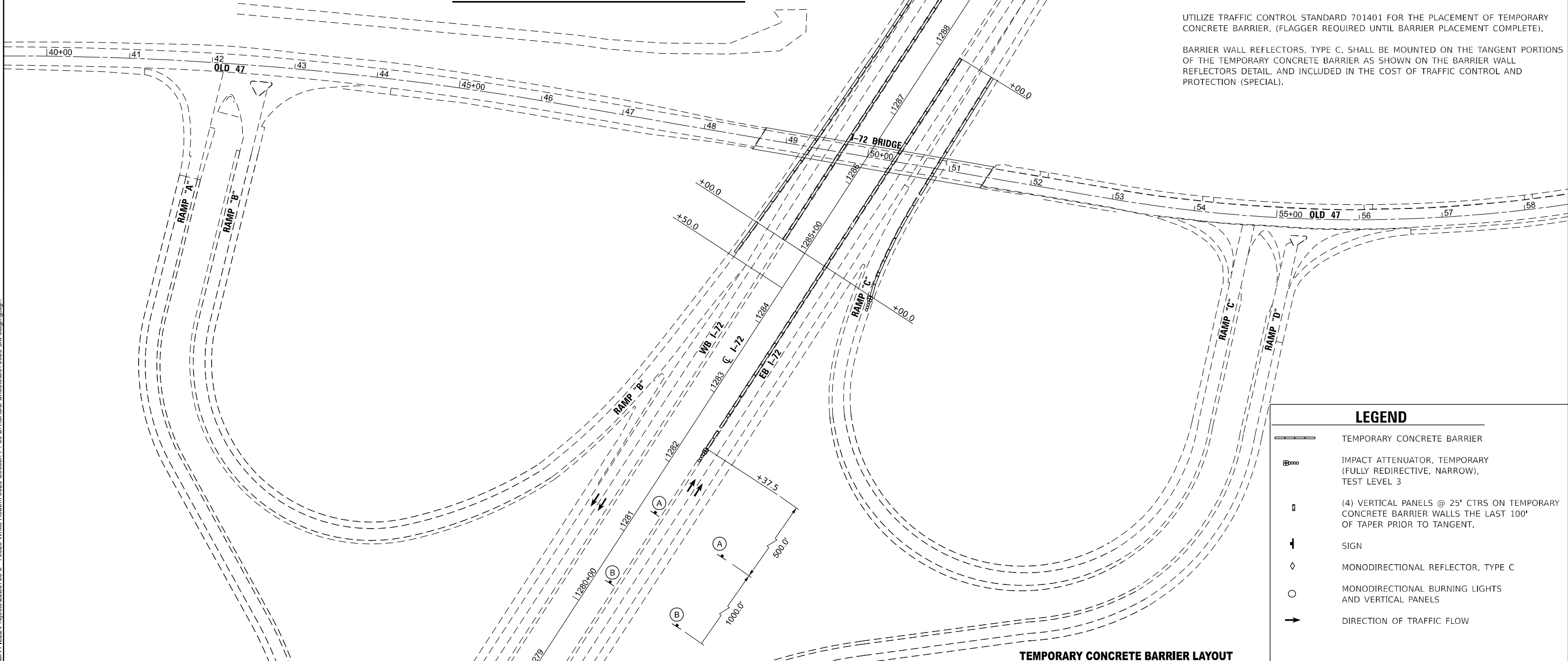


TRAFFIC CONTROL AND PROTECTION (SPECIAL)

NOTES:

UTILIZE TRAFFIC CONTROL STANDARD 701401 FOR THE PLACEMENT OF TEMPORARY CONCRETE BARRIER, (FLAGGER REQUIRED UNTIL BARRIER PLACEMENT COMPLETE).

BARRIER WALL REFLECTORS, TYPE C, SHALL BE MOUNTED ON THE TANGENT PORTIONS OF THE TEMPORARY CONCRETE BARRIER AS SHOWN ON THE BARRIER WALL REFLECTORS DETAIL, AND INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).



LEGEND

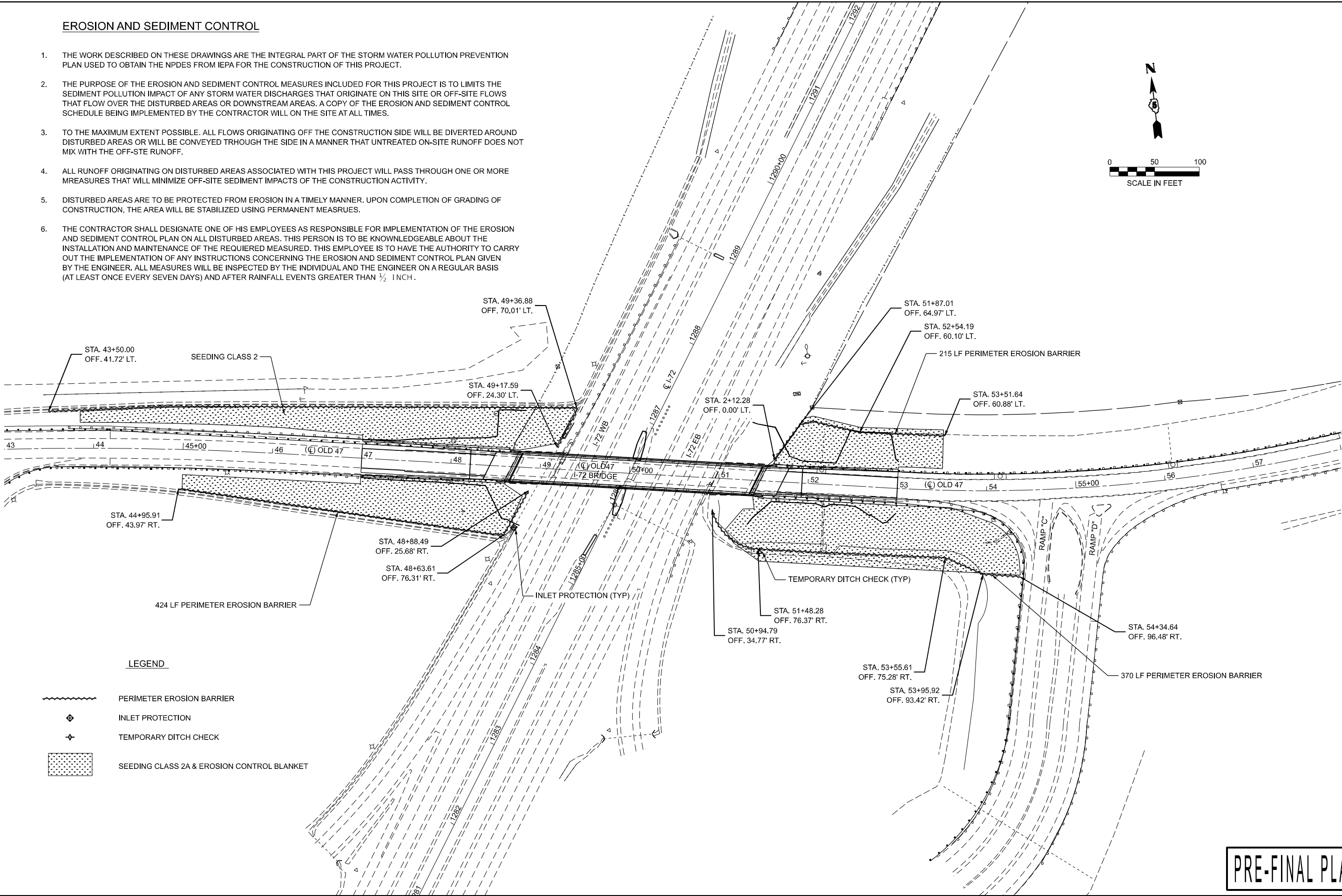
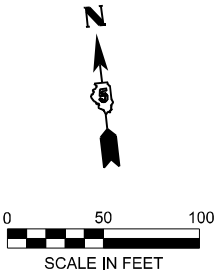
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- (4) VERTICAL PANELS @ 25' CTRS ON TEMPORARY CONCRETE BARRIER WALLS THE LAST 100' OF TAPER PRIOR TO TANGENT.
- SIGN
- MONODIRECTIONAL REFLECTOR, TYPE C
- MONODIRECTIONAL BURNING LIGHTS AND VERTICAL PANELS
- DIRECTION OF TRAFFIC FLOW

TEMPORARY CONCRETE BARRIER LAYOUT

 BENTON & ASSOCIATES, INC. CONSULTING ENGINEERS / LAND SURVEYORS 1910 WEST LAURETTE AVE. JACKSONVILLE, IL 62501 PHONE: 217-215-1146 FAX: 217-215-1148 ILL. DESIGN FIRM REGISTRATION NO. 156-000052	USER NAME = gsturjeon		DESIGNED - DSR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN WHITE HEATH ROAD (OLD 47)				F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - RDS		REVIS	ED						72	74-69BR	PIATT	78	29
	PLOT SCALE = \$SCALE\$		CHECKED - WJS	REVISED -						CONTRACT NO. 70629				
	PLOT DATE = 8/1/2024		DATE - AUGUST 2, 2024	REVISED -		SCALE:	SHEET 2	OF 2	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

EROSION AND SEDIMENT CONTROL

1. THE WORK DESCRIBED ON THESE DRAWINGS ARE THE INTEGRAL PART OF THE STORM WATER POLLUTION PREVENTION PLAN USED TO OBTAIN THE NPDES FROM IEPA FOR THE CONSTRUCTION OF THIS PROJECT.
2. THE PURPOSE OF THE EROSION AND SEDIMENT CONTROL MEASURES INCLUDED FOR THIS PROJECT IS TO LIMITS THE SEDIMENT POLLUTION IMPACT OF ANY STORM WATER DISCHARGES THAT ORIGINATE ON THIS SITE OR OFF-SITE FLOWS THAT FLOW OVER THE DISTURBED AREAS OR DOWNSTREAM AREAS. A COPY OF THE EROSION AND SEDIMENT CONTROL SCHEDULE BEING IMPLEMENTED BY THE CONTRACTOR WILL ON THE SITE AT ALL TIMES.
3. TO THE MAXIMUM EXTENT POSSIBLE, ALL FLOWS ORIGINATING OFF THE CONSTRUCTION SIDE WILL BE DIVERTED AROUND DISTURBED AREAS OR WILL BE CONVEYED THROUGH THE SIDE IN A MANNER THAT UNTREATED ON-SITE RUNOFF DOES NOT MIX WITH THE OFF-SITE RUNOFF.
4. ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT WILL PASS THROUGH ONE OR MORE MREASURES THAT WILL MINIMIZE OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITY.
5. DISTURBED AREAS ARE TO BE PROTECTED FROM EROSION IN A TIMELY MANNER. UPON COMPLETION OF GRADING OF CONSTRUCTION, THE AREA WILL BE STABILIZED USING PERMANENT MEASRUES.
6. THE CONTRACTOR SHALL DESIGNATE ONE OF HIS EMPLOYEES AS RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN ON ALL DISTURBED AREAS. THIS PERSON IS TO BE KNOWLEDGEABLE ABOUT THE INSTALLATION AND MAINTENANCE OF THE REQUIERED MEASURED. THIS EMPLOYEE IS TO HAVE THE AUTHORITY TO CARRY OUT THE IMPLEMENTATION OF ANY INSTRUCTIONS CONCERNING THE EROSION AND SEDIMENT CONTROL PLAN GIVEN BY THE ENGINEER. ALL MEASURES WILL BE INSPECTED BY THE INDIVIDUAL AND THE ENGINEER ON A REGULAR BASIS (AT LEAST ONCE EVERY SEVEN DAYS) AND AFTER RAINFALL EVENTS GREATER THAN 1/2" INCH.



LEGEND

- ~~~~~

PERIMETER EROSION BARRIER
- ◆

INLET PROTECTION
- ◆

TEMPORARY DITCH CHECK
- SEEDING CLASS 2A & EROSION CONTROL BLANKET

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
WHITE HEATH ROAD (OLD 47)

PRE-FINAL PLANS

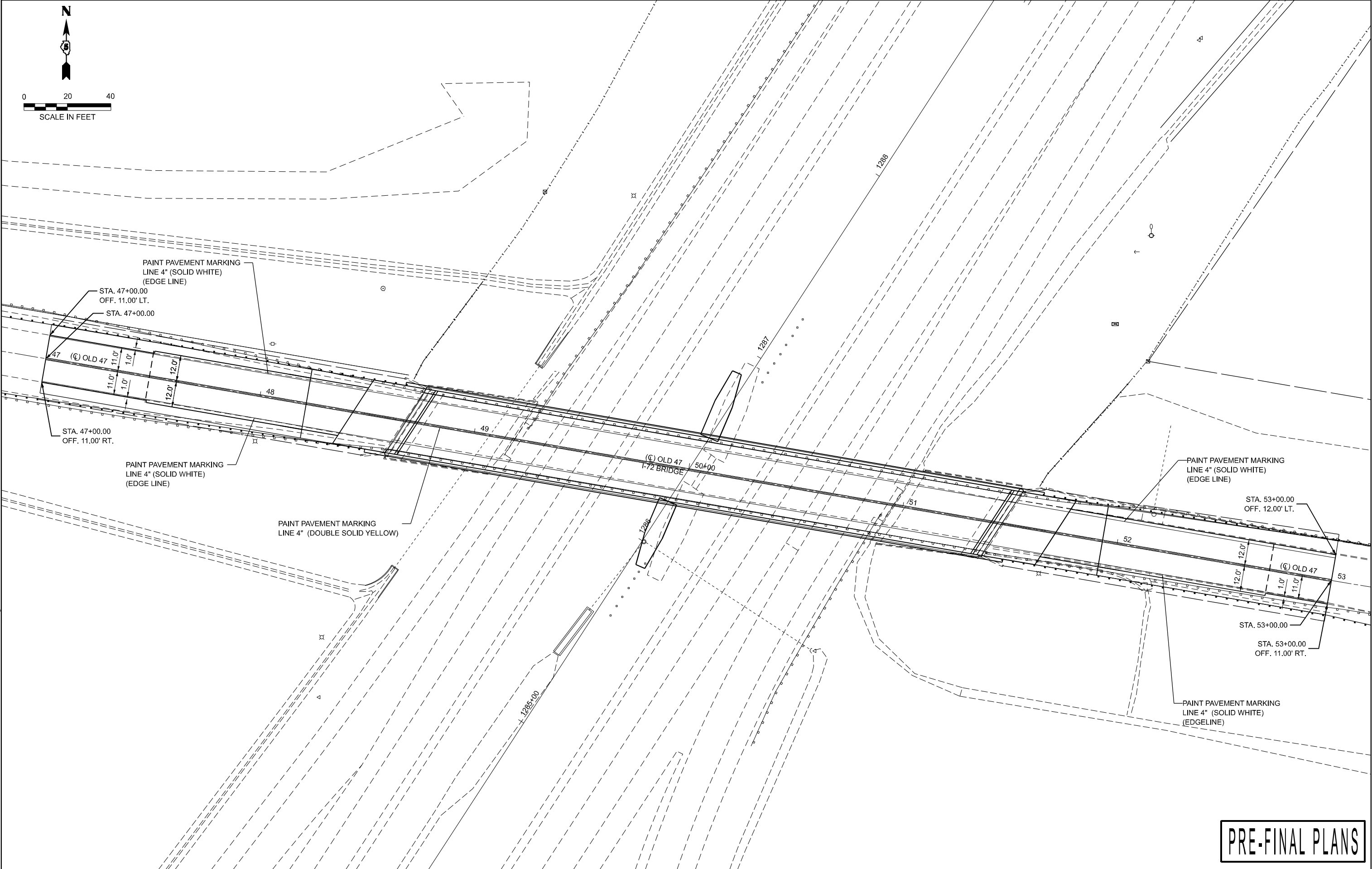
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BA BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1910 WEST JARVIS AVE.
CHICAGO, ILL. 60609
PHONE: 312.215.1146 FAX: 312.215.1148
ILL. DESIGN 1984 REGISTRATION NO. 156-000052

USER NAME =	druhall	DESIGNED -	DSR	REVISED -	
DRAWN -	RDS	REVISED -			
PLOT SCALE =	SSCALE\$	CHECKED -	WJS	REVISED -	
PLOT DATE =	7/30/2024	DATE -	AUGUST 2, 2024	REVISED -	

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. 43+00.00 TO STA. 58+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	30
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				



PRE-FINAL PLANS

MODEL: PMK-1 [Sheet]
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BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1370 WEST LAMAR AVENUE
JACKSONVILLE, IL 62501
PHONE: 217-215-1146 FAX: 217-215-1148
ILLINOIS PROFESSIONAL REG. NO. 124-000052

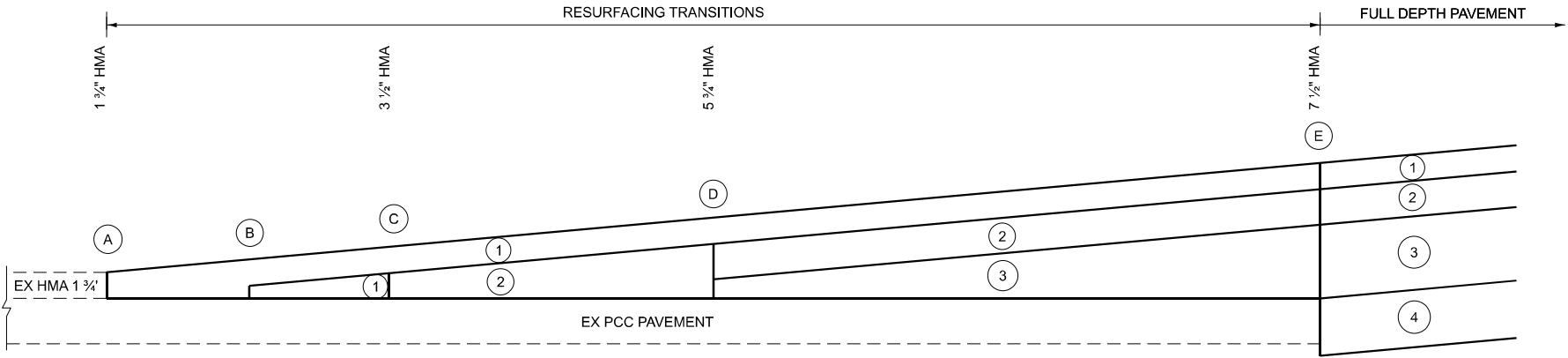
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PLOT SCALE =	SSCALE\$	CHECKED -	WJS	REVISED -	
PLOT DATE =	7/30/2024	DATE -	AUGUST 2, 2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN SHEET
WHITE HEATH ROAD (OLD 47)

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	31
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				



LEGEND

- 1 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5 FG, MIX "D", N50

2 HOT-MIX ASPHALT BINDER COURSE, IL - 19.0, N50

3 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL - 19.0, N50

4 AGGREGATE SUBGRADE IMPROVEMENT 12"
- A POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5 FG, MIX "D", N50 (1 3/4")
STA. 47+00
STA. 53+00

B BEGIN 2ND LIFT POLYMERIZED HOT-MIX ASPALT SURFACE COURSE (1.0" MIN.)
STA. 47+03.69
STA. 52.97.73

C POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5 FG, MIX "D", N50 (1 1/4")
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL - 19.0, N50 (2 1/4")
STA. 47+13.71
STA. 52+91.65

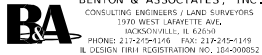
D POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5 FG, MIX "D", N50 (1 1/4")
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL - 19.0, N50 (2 1/4")
HOT-MIX ASPHALT BINDER COURSE, IL - 19.0, N50 (2 1/4")
STA. 47+34.05
STA. 52+71.11

E POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5 FG, MIX "D", N50 (1 1/4")
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL - 19.0, N50 (2 1/4")
HOT-MIX ASPHALT BINDER COURSE, IL - 19.0, N50 (4")
AGGREGATE SUBGRADE IMPROVEMENT (12")
STA. 47+48.32
STA. 51+93.21

RESURFACING TRANSITION DETAIL

NOT TO SCALE

MODEL: Details-1 [Sheet]
FILE NAME: P:\22E3703-3 - 70629 White Heath\70629 Section 74-69 BR\CA\DD Sheets\DE70629-shh-Details.dgn



USER NAME = dnuholl	DESIGNED - DSR	REVISED -
	DRAWN - DSR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - WJS	REVISED -
PLOT DATE = 8/2/2024	DATE - AUGUST 2, 2024	REVISED -

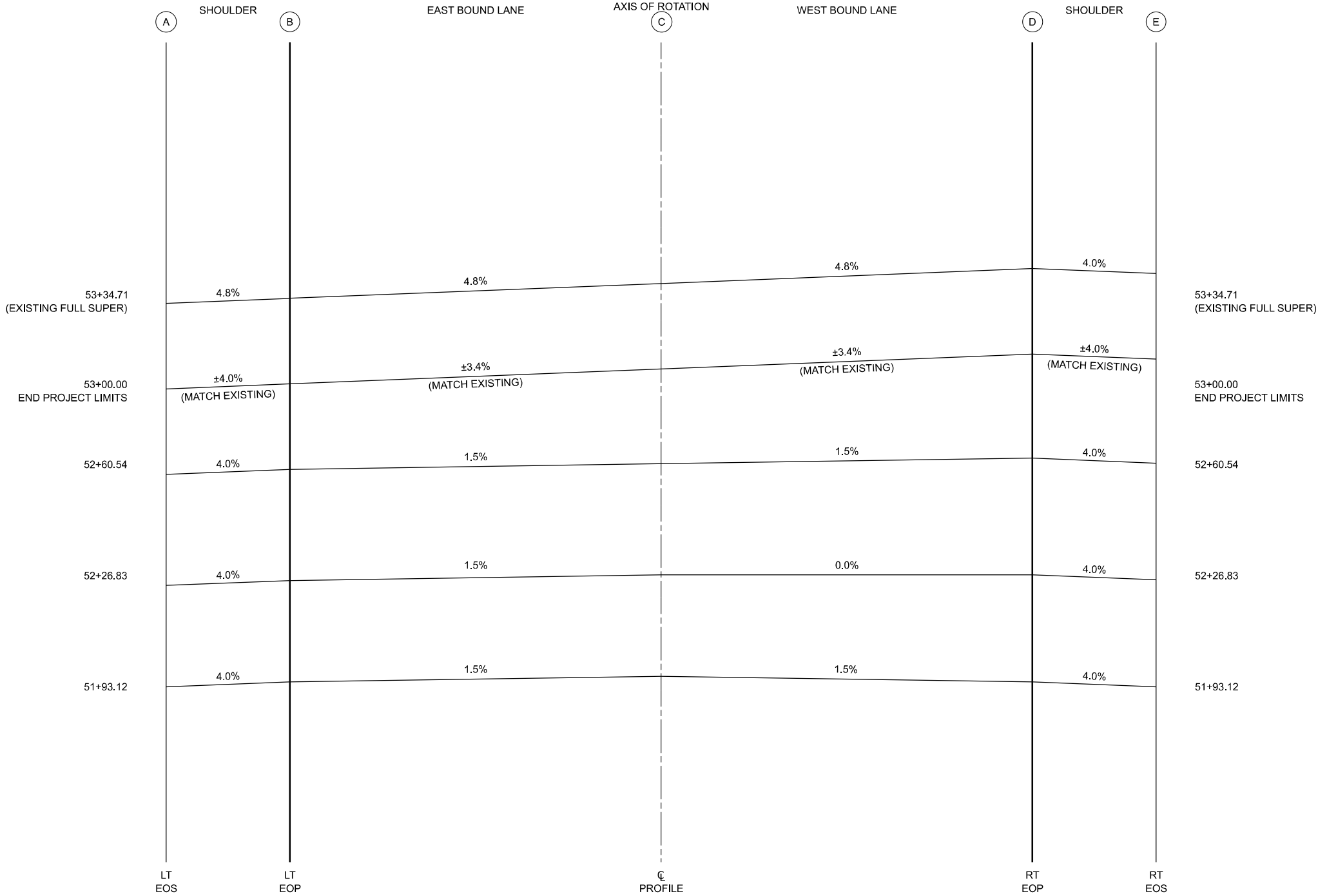
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
WHITE HEATH ROAD (OLD 47)

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	32
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

MODEL: Super [Sheet]
FILE NAME: P:\22E\703-3 - 70629 White Heath\70629 Section 74-69 BR\CAADD Sheets\570629-shh-Details.dgn



STA.	DESIGN ELEVATIONS AND OFFSETS									
	A		B		C		D		E	
	OFFSET	ELEV.	OFFSET	ELEV.	OFFSET	ELEV.	OFFSET	ELEV.	OFFSET	ELEV.
51+93.12	16.00' LT	721.06	12.00' LT	721.22	0.00' RT	721.40	12.00' RT	721.22	16.00' RT	721.06
52+26.83	16.79' LT	720.02	12.00' LT	720.21	0.00' RT	720.39	12.00' RT	720.39	16.00' RT	720.27
52+60.54	17.58' LT	718.88	12.00' LT	719.10	0.00' RT	719.23	12.00' RT	719.46	16.00' RT	719.30
53+00.00	18.50' LT	±717.23	12.00' LT	±717.62	0.00' RT	±717.88	10.34' RT	±718.03	16.00' RT	±717.52

MATCH EXISTING PAVEMENT GRADES AND ELEVATIONS AT STA. 53+00.00

SUPER ELEVATION TRANSITION SECTIONS - WHITE HEATH RD (OLD 47)



BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1370 WEST LARAYETTE AVE.
JACKSONVILLE, IL 62650
PHONE: 217-215-1146 FAX: 217-215-1148
IL DESIGN FIRM REGISTRATION NO. 154-000052

USER NAME = dnuholl	DESIGNED - DSR	REVISED -
	DRAWN - RDS	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - WJS	REVISED -
PLOT DATE = 7/30/2024	DATE - AUGUST 2, 2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS - SUPER ELEVATION TRANSITION
WHITE HEATH ROAD (OLD 47)

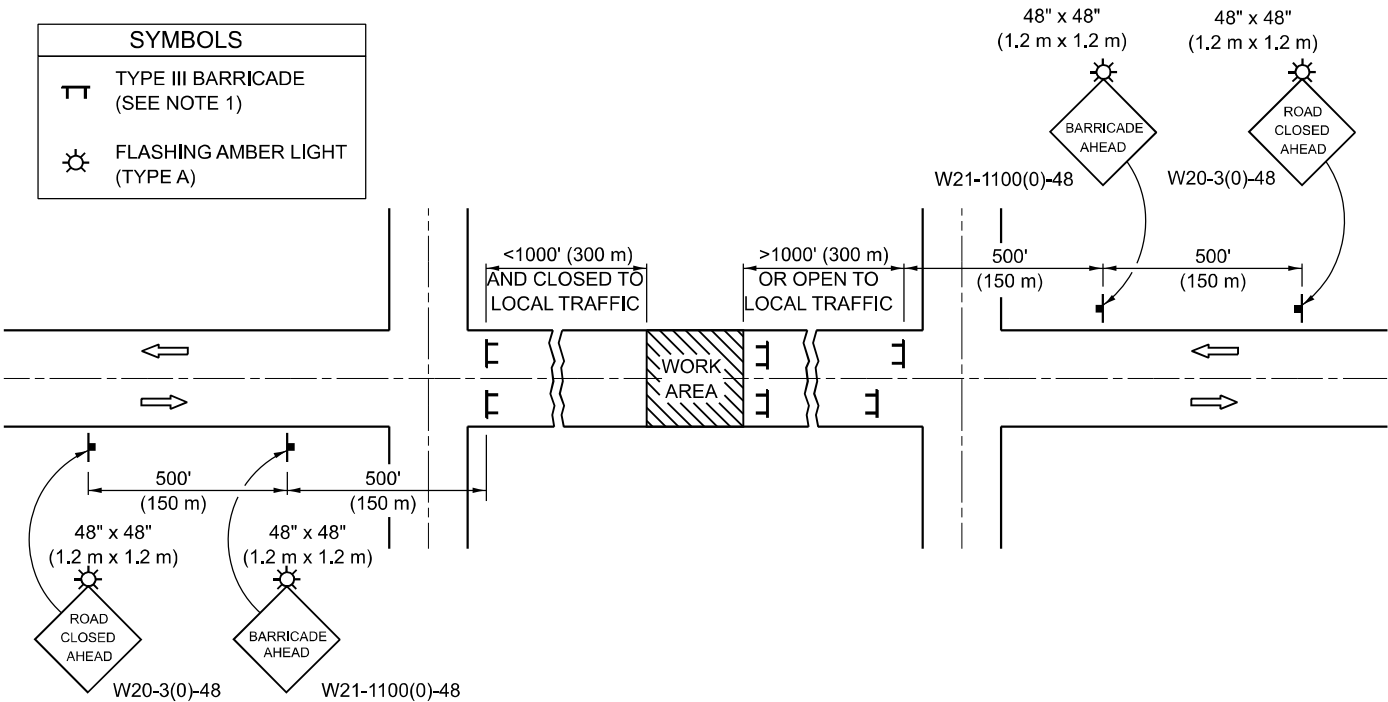
SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	33
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

ROAD CLOSURE

SIDEROAD / STREET CLOSURE

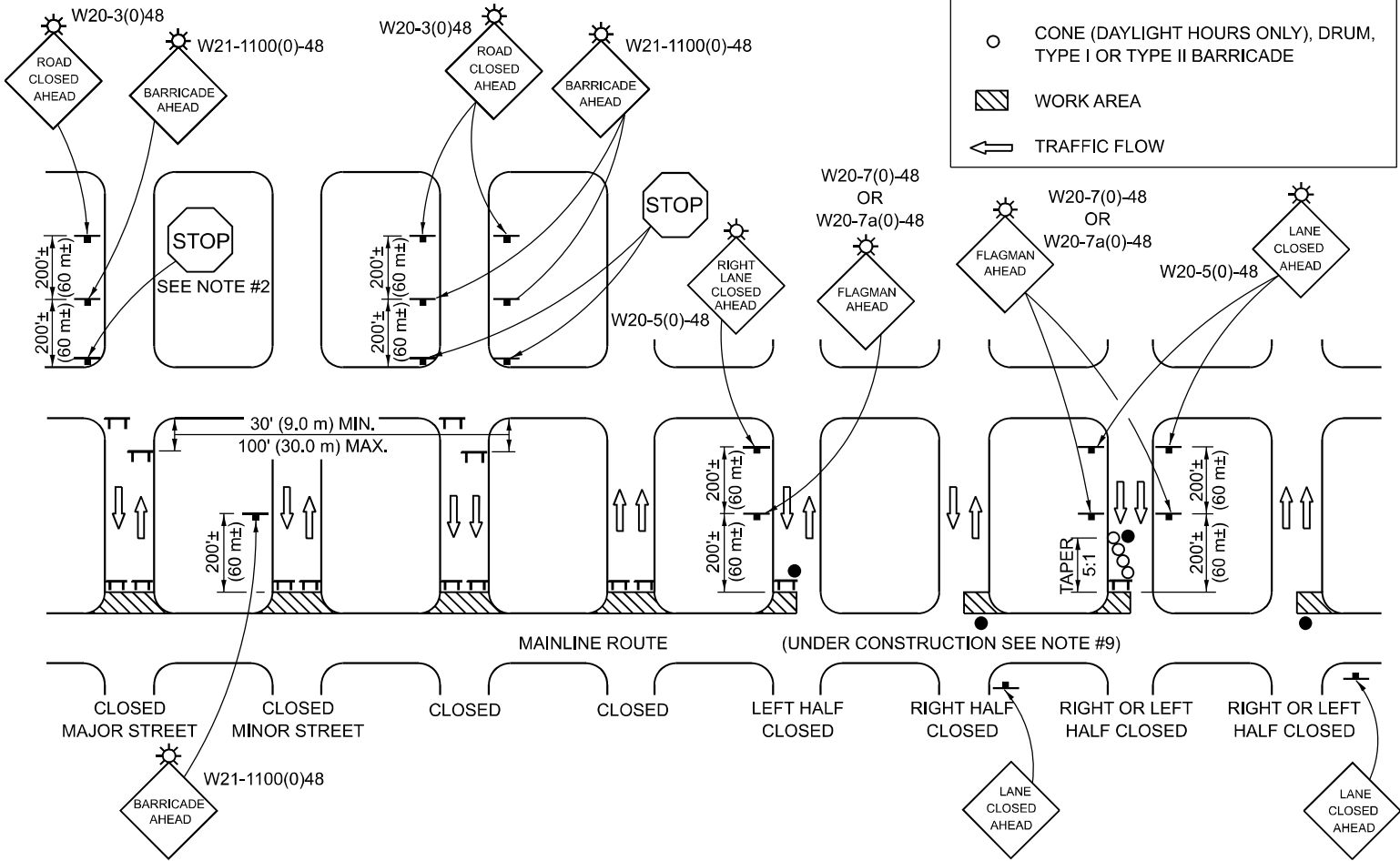
SYMBOLS	
	TYPE III BARRICADE (SEE NOTE 1)
	FLASHING AMBER LIGHT (TYPE A)



GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
- WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
- REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TY III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT. 725 AND BT. 726 ARE REQUIRED.
- WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
- AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

SYMBOLS	
	TYPE III BARRICADE (SEE NOTE)
	FLASHING LIGHT
	FLAGGER WITH TRAFFIC CONTROL SIGN (WHILE WORK IS BEING PERFORMED)
	CONE (DAYLIGHT HOURS ONLY), DRUM, TYPE I OR TYPE II BARRICADE
	WORK AREA
	TRAFFIC FLOW



GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT 725 AND BT 726 ARE REQUIRED.
- THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
- ALL FLAGGERS REQUIRED AT SIDE ROADS AND ENTRANCES REMAINING OPEN TO TRAFFIC AND/OR ADDITIONAL BARRICADES REQUIRED BY THE ENGINEER TO CLOSE SIDE ROADS AND ENTRANCES WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

Note: All dimensions are in INCHES
(millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 70200000

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

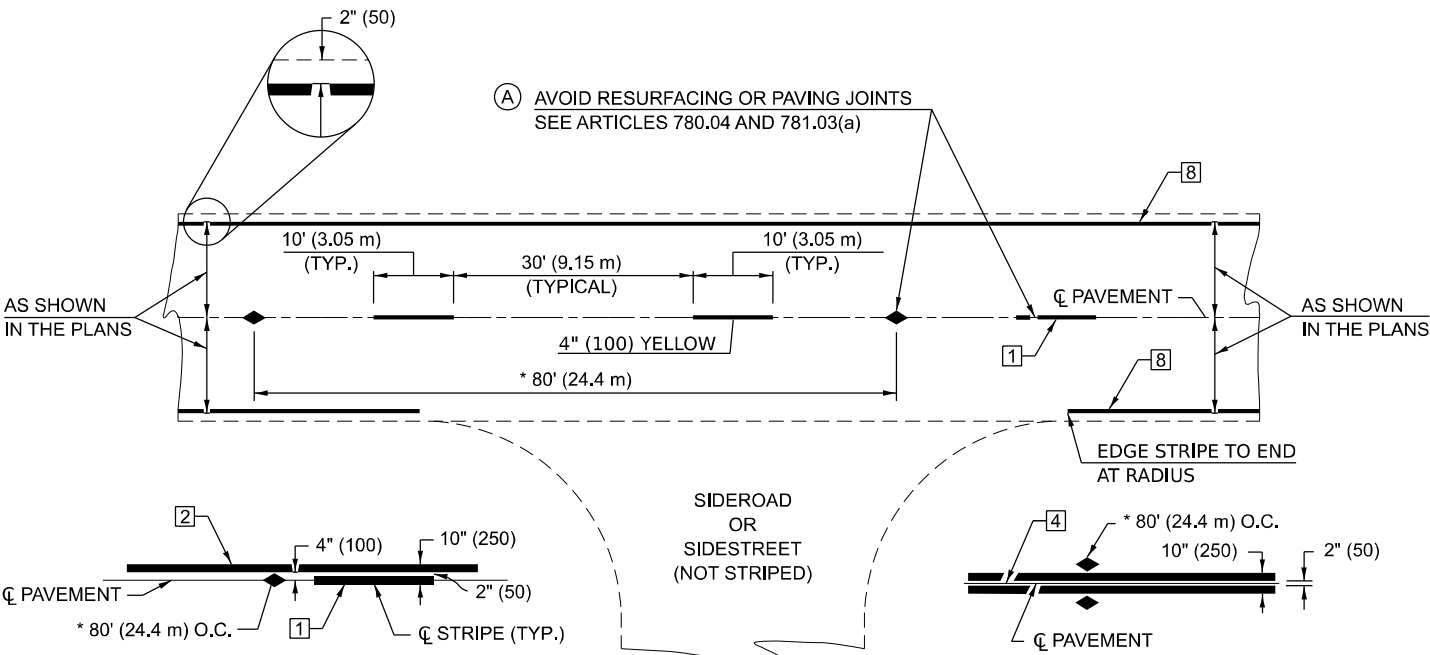
TRAFFIC CONTROL & PROTECTION DEVICES
(ROAD & SIDEROAD / STREET CLOSURES)

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	34
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 1 OF 5 SHEETS STA. TO STA.

USER NAME = dnuholl	DESIGNED -	REVISED -
	DRAWN - D5	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = 7/30/2024	DATE -	REVISED -

MODEL: 78000AAA-1 [Sheet]
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SINGLE NO PASSING

DOUBLE NO PASSING

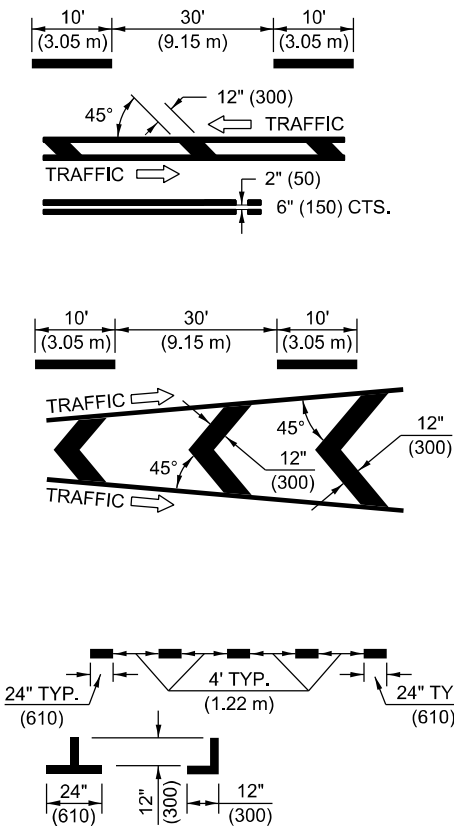
* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

TWO LANE/TWO WAY

TYPICAL PAVEMENT MARKING LENGEND

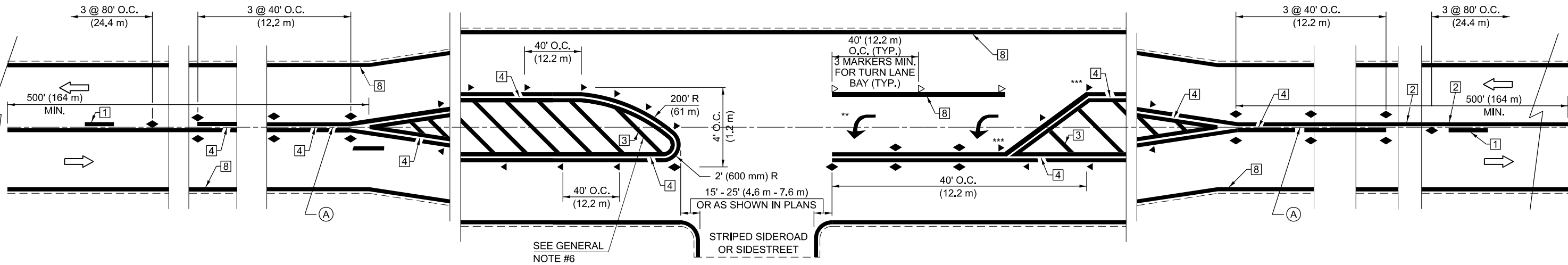
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)
- 14 4" (100) PARKING WHITE

TYPICAL PAVEMENT MARKERS LENGEND



- ◆ TWO-WAY AMBER MARKER
- ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

RURAL LEFT TURN



*** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

** TURN ARROWS SHALL BE PLACED AS SHOWN OF SHEET #2.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAAA

USER NAME = dnuholl	DESIGNED -	REVISED -
DRAWN - D5	REVISED -	
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = 7/30/2024	DATE -	REVISED -

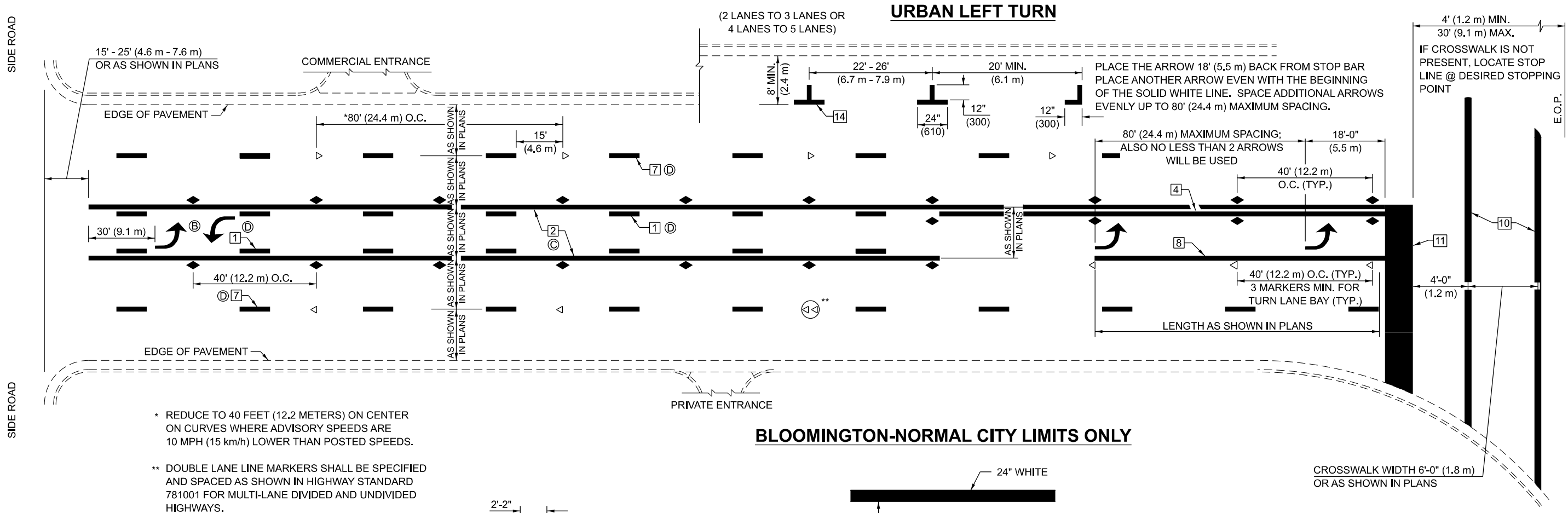
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	35
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

MODEL: 78000AAA-2 [Sheet]
FILE NAME: P:\22E\703-3 - 70629 White Heath\70629 Section 74-69 BR/CADD Sheets\DS70629-shh-District_Details.dgn

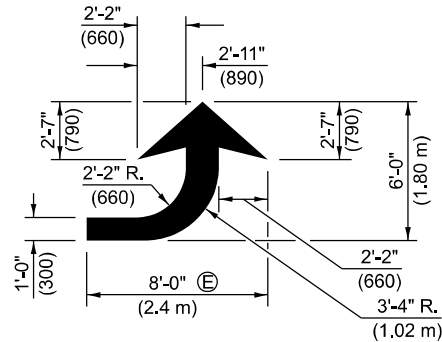


GENERAL NOTES:

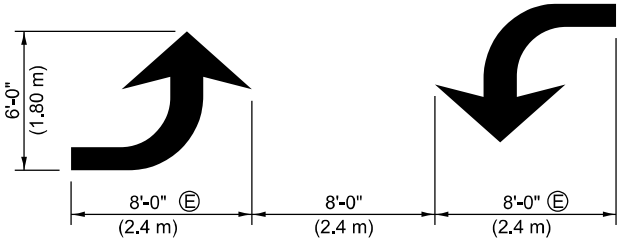
- B TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
- C THE SOLID YELLOW PAVEMENT MARKINGS [5] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
- D THE SKIP-DASH PAVEMENT MARKINGS [4] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.
- E USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)

LEFT ARROW

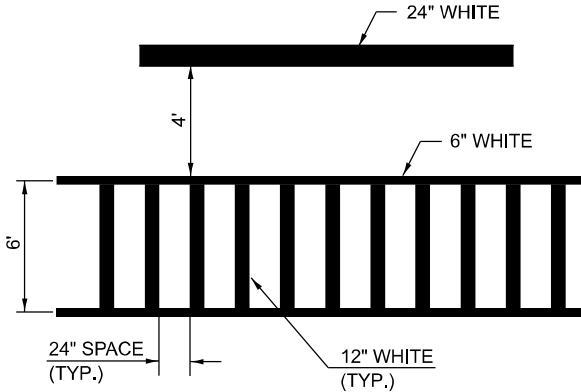
REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m)
(WHITE)



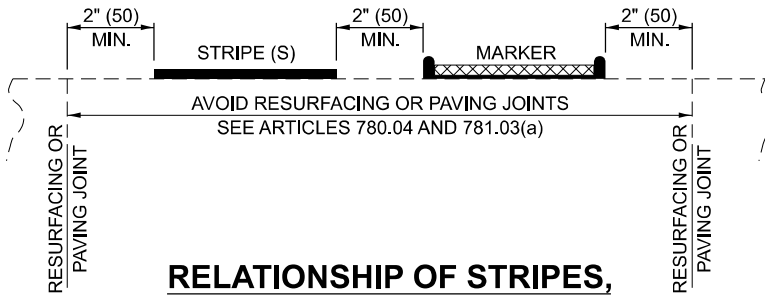
TYPICAL DOUBLE TURN ARROWS (WHITE)



BLOOMINGTON-NORMAL CITY LIMITS ONLY



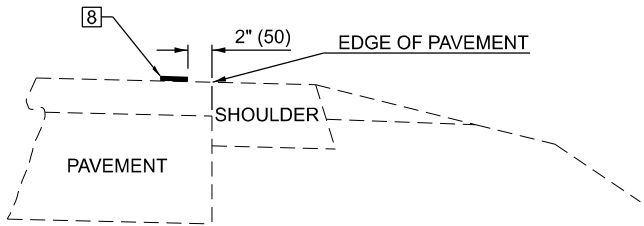
TYPICAL SPACING FOR CROSSWALKS & STOP BARS



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS

RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT

(SAFETY SHOULDER OR PAVED SURFACE)
SEE ARTICLE 780.04



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAAA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	36
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

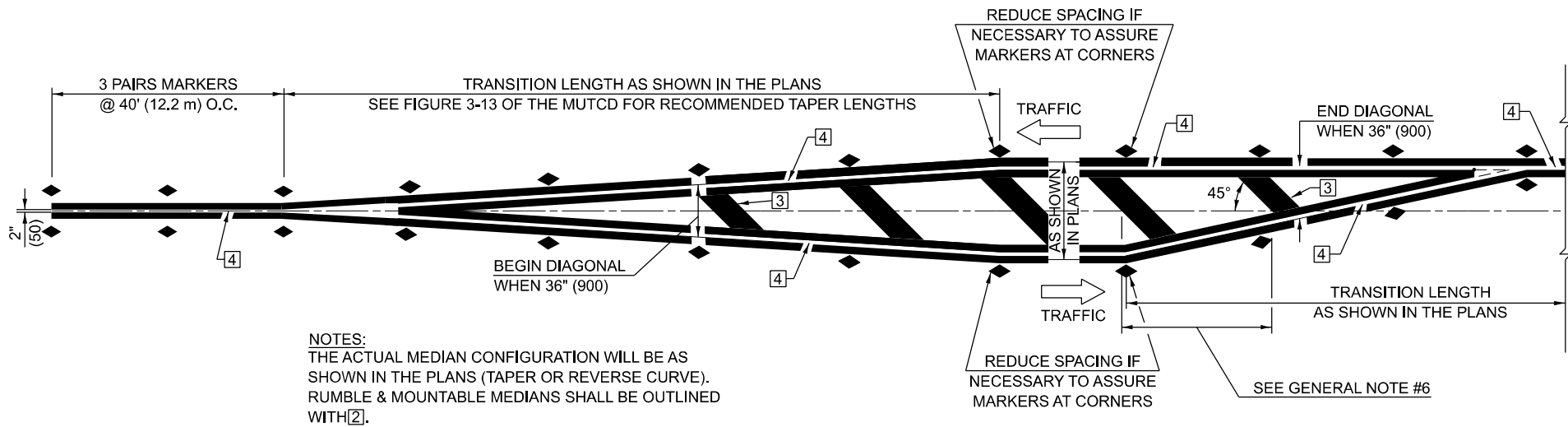
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PLOT DATE = 7/30/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)

SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

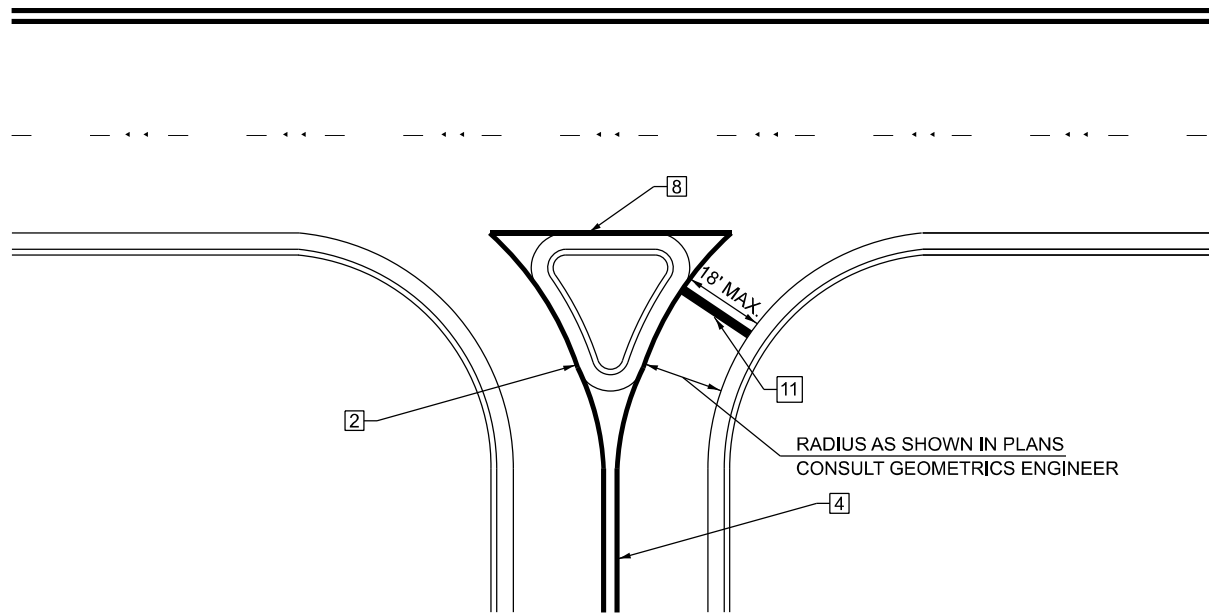
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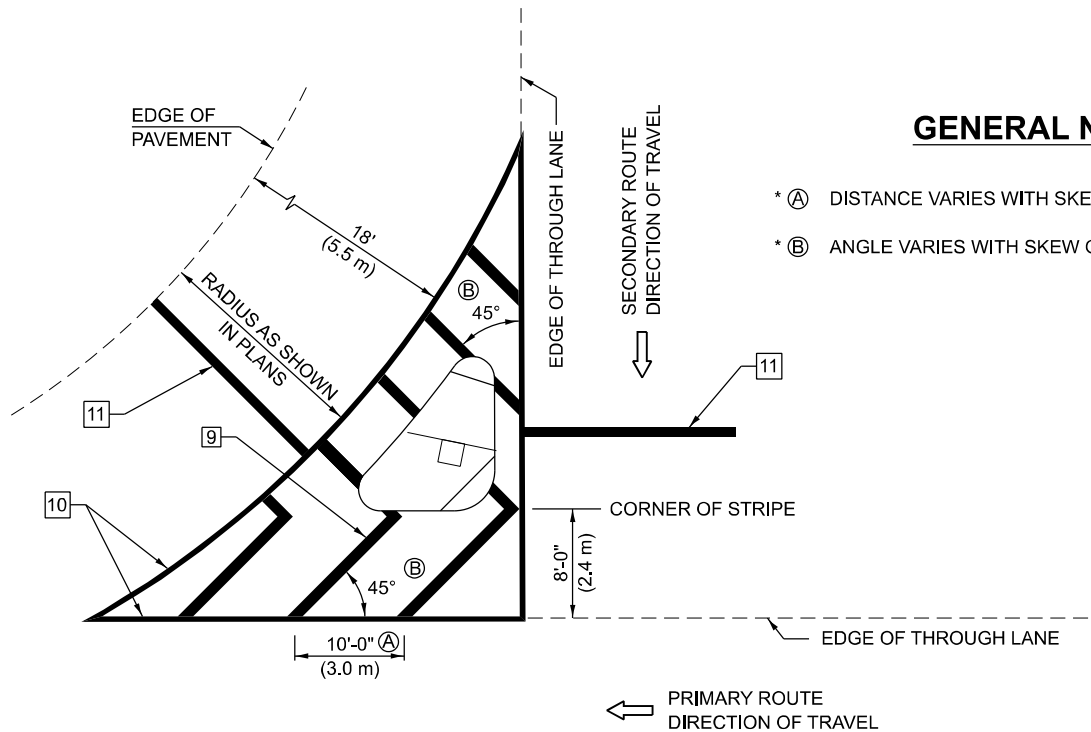
TYPICAL MEDIAN TRANSITIONS

GENERAL NOTES

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,
<30 MPH USE 15' (<50 km/h USE 4.5 m)
30-45 MPH USE 20' (50-75 km/h USE 6.0 m)
>45 MPH USE 30' (>75 km/h USE 9.0 m)



RIGHT IN - RIGHT OUT ACCESS



ISLAND

* FOR RIGHT TURN LANE AND ISLAND STRIPING CONSULT GEOMETRICS ENGINEER.

GENERAL NOTES

- * (A) DISTANCE VARIES WITH SKEW OF INTERSECTION.
- * (B) ANGLE VARIES WITH SKEW OF INTERSECTION.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAAA

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	37
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

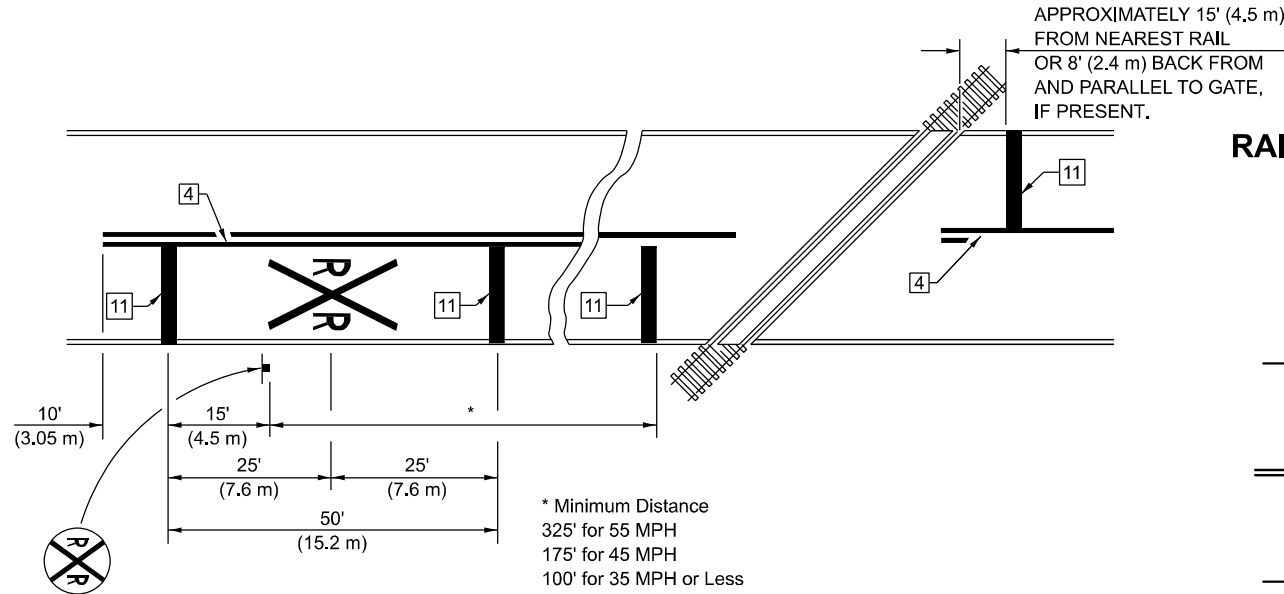
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

SCALE: SHEET 4 OF 5 SHEETS STA. TO STA.

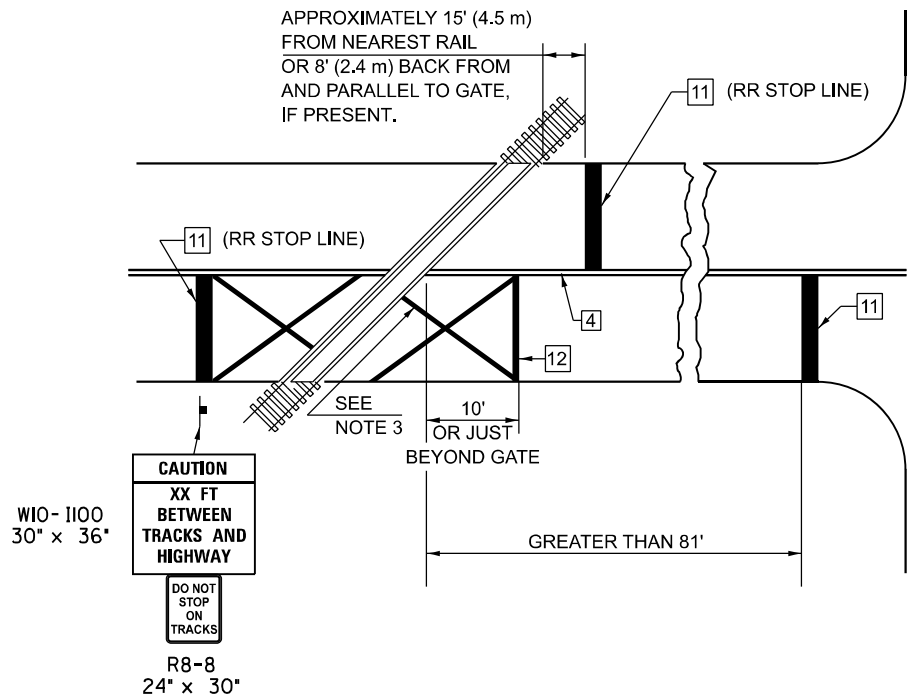
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	DATE -	REVISED -

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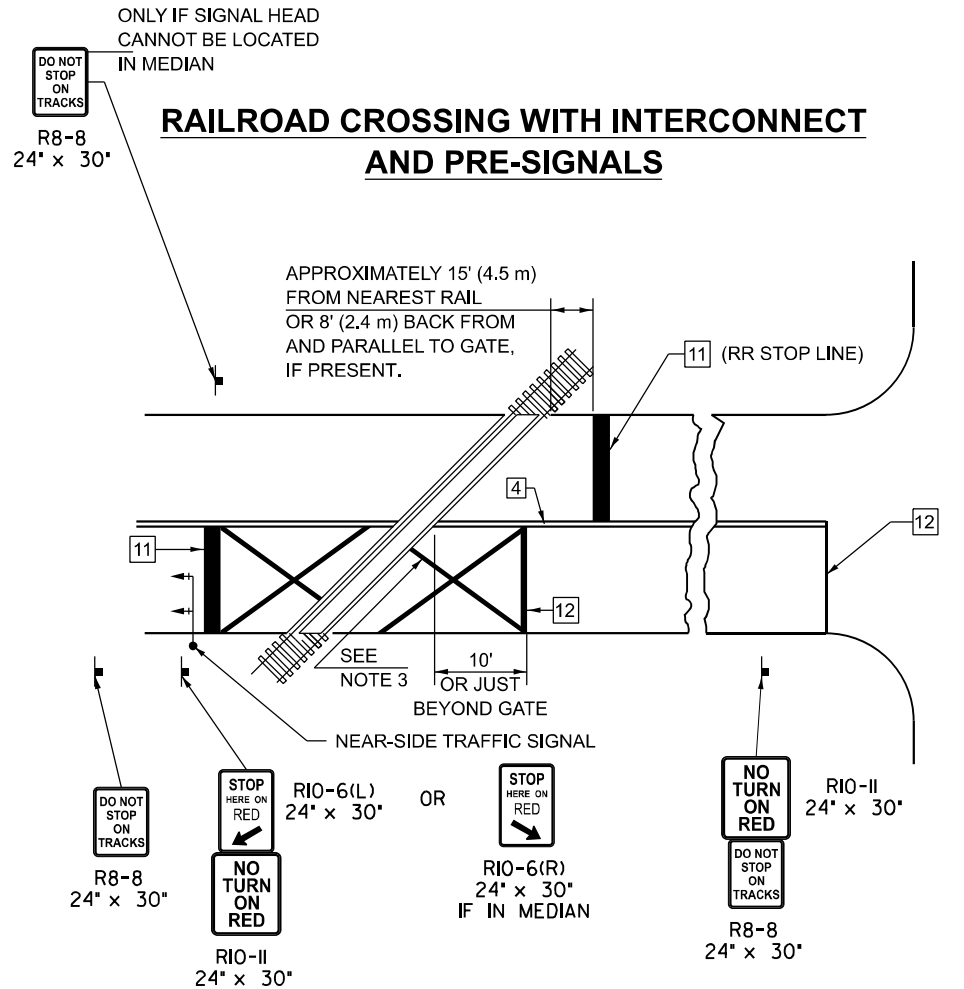


PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS

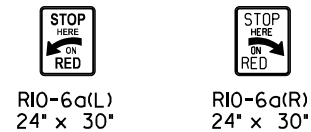


GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
- 6" WHITE PAVEMENT MARKINGS AT 45° TO PAVEMENT, 8' CENTER TO CENTER.
- XX DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET FROM THE RAIL CLOSEST TO THE INTERSECTION OR FROM THE CLOSEST POINT ALONG THE EXIT GATE IF PRESENT OVER THE ROADWAY WHEN IN THE LOWERED POSITION TO THE STOP BAR OR CROSSWALK, WHICH EVER IS CLOSEST, ROUNDED DOWN TO NEAREST 5 FEET. WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
- THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6 FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTENDED TO THE INTERSECTION.

SUPPLEMENT PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

ALTERNATE SIGNS



NOTES

- THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.
- ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.
- WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAAA

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	38
CONTRACT NO. 70629				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

SCALE: SHEET 5 OF 5 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

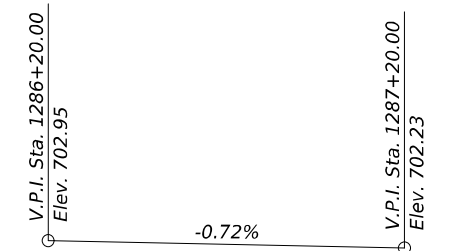
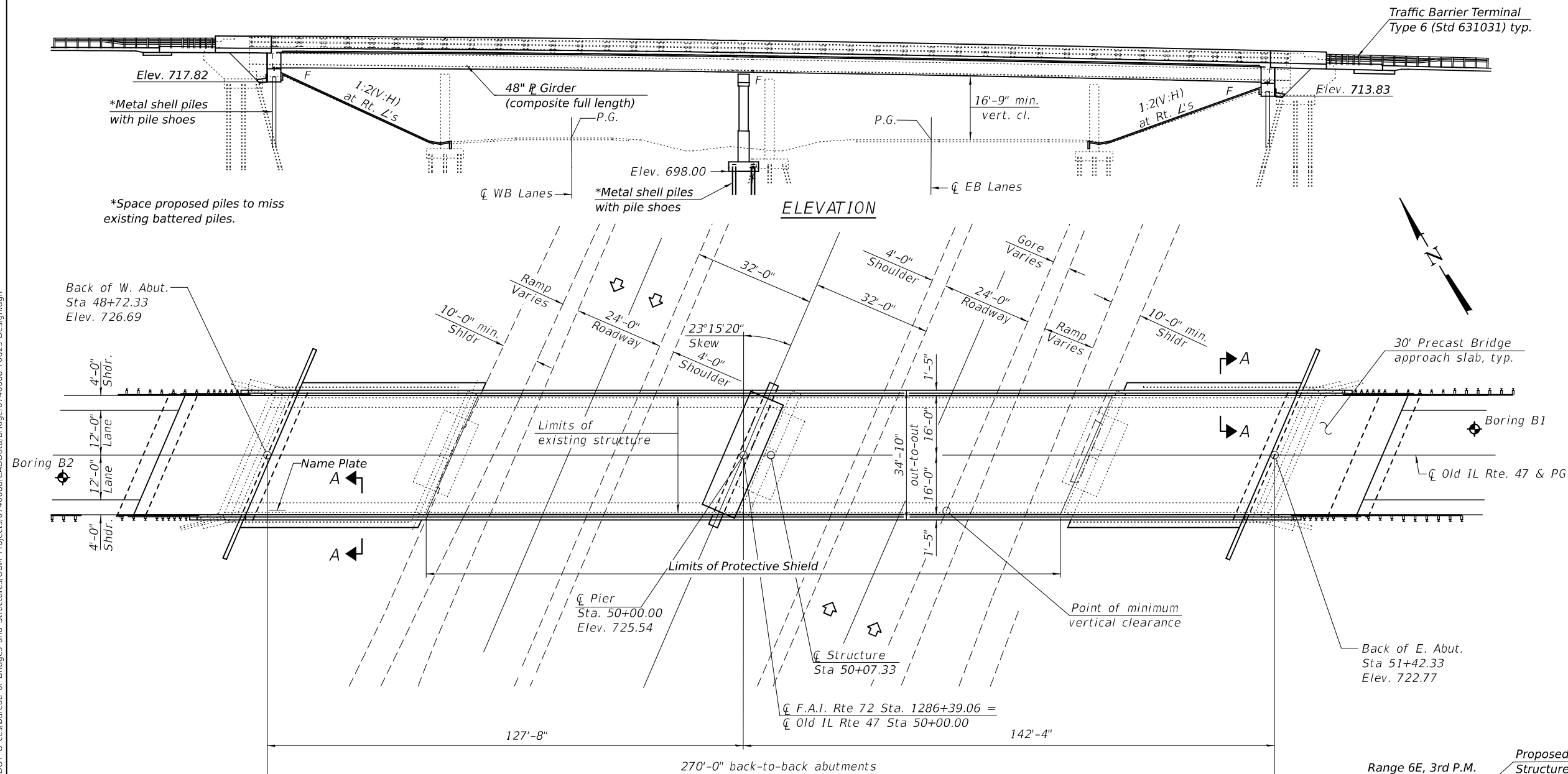
No Salvage

2020 AASHTO LRFD Bridge Design
Specifications, 9th Edition

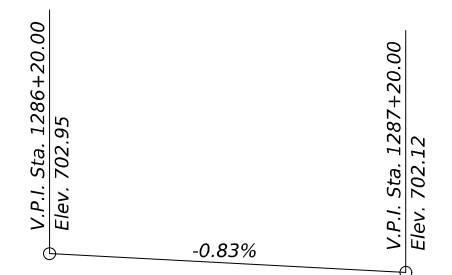
All structural steel shall be metallized

Soil Site Class = D

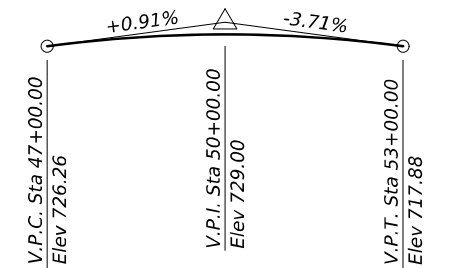
Allow 50#/sq. ft. for Future Wearing Surface.



PROFILE GRADE
(Along C W.B. Lanes - F.A.I. 72)



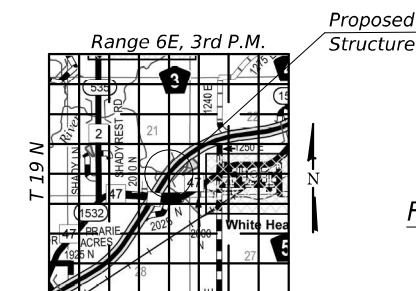
PROFILE GRADE
(Along C E.B. Lanes - F.A.I. 72)



Vertical curve = 600'

PROFILE GRADE
(Along $\text{\textcircled{C}}$ Old IL. Rte 47)

Up to ¼ inch to be ground off the bridge deck and the bridge approach slabs. The Profile Grade shows the final grade after grinding.



LOCATION SKETCH

STRUCTURE NO. 074-0088

DESIGNED	-	DAVID H. RICHTER
CHECKED	-	RYAN P. NEGANGARD
DRAWN	-	GLENN W. STOVER
CHECKED	-	D.H.R. / R.P.N.

EXAMINED	<i>Mark Shaffer</i>
	ENGINEER OF BRIDGE DESIGN
PASSED	<i>James F. Schell</i>
	ENGINEER OF BRIDGES AND STRUCTURES

DATE - 10-10-2024

REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 30 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1532	74-69BR	PIATT	78	39
CONTRACT NO. 70629				
ILLINOIS		FED. AID PROJECT		

		CONT
ILLINOIS	FED. AID PROJECT	

MODEL: 0740088-70629-001
FILE NAME: pwr:\jldot-syb.bentley.com:PWIDOT\Documents\DOT_O ces\Bureau of Bridges and Structures\OBM Projects\0740088\CADData\Bridge0740088-70629-Design.dgn

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Removal of existing concrete slopewall shall be included in the cost of Removal of Existing Structures.



All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

Fasteners shall be ASTM F 3125 Grade A325 Type 1, hot dip galvanized bolts in metallized areas. Bolts 7/8 in. diameter, holes 1 1/16 in. diameter, unless otherwise noted. See special provision for "Metallizing of Structural Steel".

Calculated weight of Structural Steel = 467,850 lbs. (M270 Grade 50)

Calculated weight of Structural Steel = 25,350 lbs. (M270 grade 36)

No field welding is permitted except as specified in the contract documents.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 3/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.

Reinforcement bars designated (E) shall be epoxy coated.

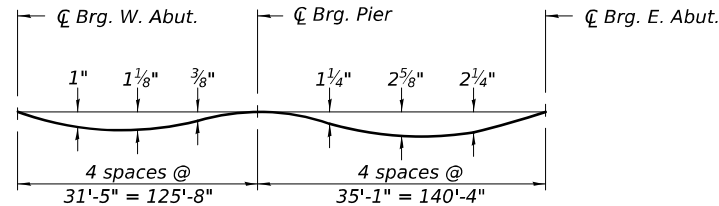
All new structural steel shall be metallized and coated with a clear sealer (System I).

See Special Provision for "Metallizing of Structural Steel."

Slipforming of the parapets is not allowed.

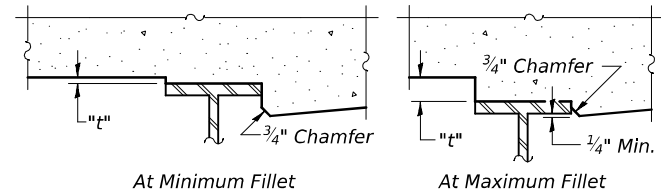
ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each			1
Protective Shield	Sq. Yd.	651		651
Structure Excavation	Cu. Yd.		332	332
Concrete Structures	Cu. Yd.		138.8	138.8
Concrete Superstructure	Cu. Yd.	375.0		375.0
Protective Coat	Sq. Yd.	1442		1442
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	3216		3216
Mechanical Splicers	Each		40	40
Reinforcement Bars, Epoxy Coated	Pound	92340	20820	113160
Slope Wall 4 Inch	Sq. Yd.		425	425
Furnishing Metal Shell Piles 14" x 0.312"	Foot		1118	1118
Driving Piles	Foot		1118	1118
Test Pile Metal Shells	Each		2	2
Pile Shoes	Each		26	26
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	74		74
Anchor Bolts, 1"	Each		24	24
Anchor Bolts, 1½"	Each		12	12
Granular Backfill for Structures	Cu. Yd.		172	172
Geocomposite Wall Drain	Sq. Yd.		85	85
Pipe Underdrains for Structures 4"	Foot		154	154
Diamond Grinding (Bridge Section)	Sq. Yd.	1157		1157
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	874		874
Concrete Wearing Surface, 5"	Sq. Yd.	226		226
Precast Bridge Approach Slab	Sq. Ft.	1910		1910
Bar Terminators	Each	124	368	492

SECTION A-A



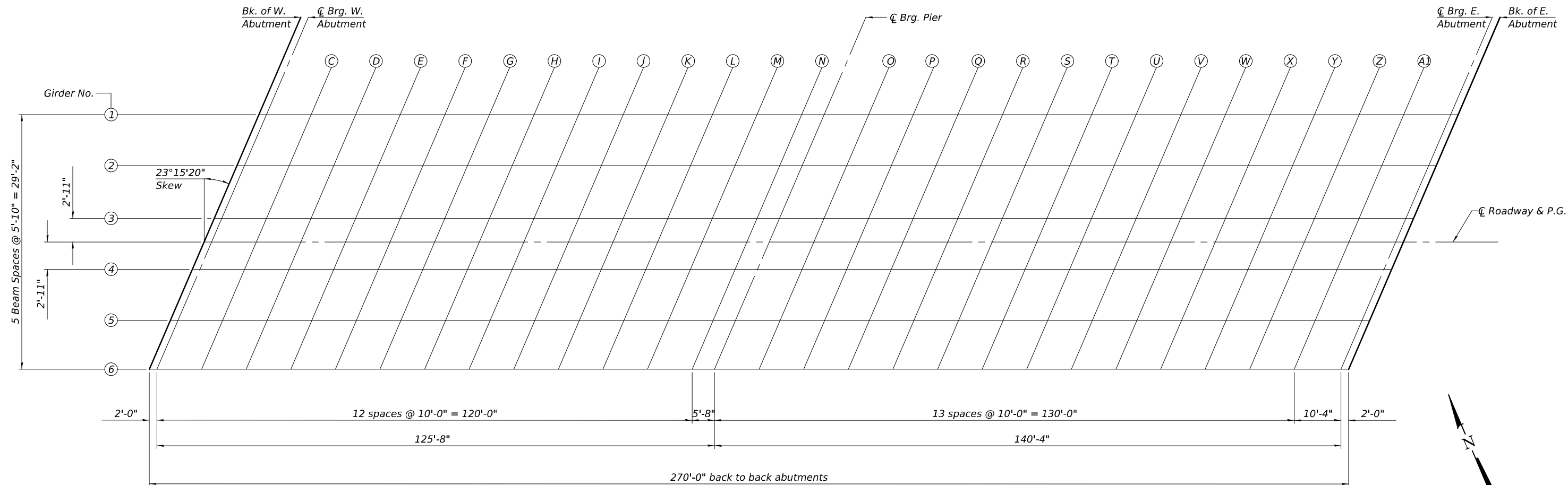
DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections and grinding as shown on sheets 4 thru 6 of 30.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections and Grinding" shown on sheets 4 thru 6 of 30, minus 8 1/4" deck thickness, equals the fillet heights "t" above top flange of beams.
The slab is to be ground after curing to achieve smoothness, but the slab is not to be ground to elevations below the "Theoretical Grade Elevations" shown on sheets 4 thru 6 of 30. For grinding the deck, see Special Provisions.

FILLET HEIGHTS



MODEL: 0740088-70629-003
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DESIGNED -	DAVID H. RICHTER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / R.P.N.

EXAMINED	<i>Mark Shuff</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Jayne F. [Signature]</i> ENGINEER OF BRIDGES AND STRUCTURES

DATE -	10-10-2024
REVISED -	___
REVISED -	___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 074-0088

SHEET 3 OF 30 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1532	74-69BR	PIATT	78	41
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

10/10/2024 2:21:45 PM

MODEL: 0740088-70629-004
FILE NAME: pw://jldel-pw/bentley.com:FWIDOT/Documents/IDOT O ces/Bureau of Bridges and Structures/OBM Projects/0740088/CADDData/Bridge/0740088-70629-Design.dgn

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. of W. Abut.	48+78.60	-14.58	726.43	726.45
☒ Brg. W. Abut.	48+80.60	-14.58	726.42	726.44
C	48+90.60	-14.58	726.37	726.42
D	49+00.60	-14.58	726.31	726.39
E	49+10.60	-14.58	726.24	726.35
F	49+20.60	-14.58	726.17	726.28
G	49+30.60	-14.58	726.09	726.20
H	49+40.60	-14.58	726.00	726.11
I	49+50.60	-14.58	725.90	725.99
J	49+60.60	-14.58	725.79	725.87
K	49+70.60	-14.58	725.68	725.74
L	49+80.60	-14.58	725.56	725.60
M	49+90.60	-14.58	725.43	725.46
N	50+00.60	-14.58	725.29	725.32
☒ Brg. Pier	50+06.26	-14.58	725.21	725.23
O	50+16.26	-14.58	725.07	725.12
P	50+26.26	-14.58	724.91	724.99
Q	50+36.26	-14.58	724.75	724.86
R	50+46.26	-14.58	724.57	724.72
S	50+56.26	-14.58	724.40	724.57
T	50+66.26	-14.58	724.21	724.42
U	50+76.26	-14.58	724.01	724.26
V	50+86.26	-14.58	723.81	724.04
W	50+96.26	-14.58	723.60	723.82
X	51+06.26	-14.58	723.38	723.60
Y	51+16.26	-14.58	723.16	723.34
Z	51+26.26	-14.58	722.93	723.06
A1	51+36.26	-14.58	722.69	722.76
☒ Brg. E. Abut.	51+46.60	-14.58	722.43	722.45
Bk. of E. Abut.	51+48.60	-14.58	722.38	722.40

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. of W. Abut.	48+76.09	-8.75	726.54	726.56
☒ Brg. W. Abut.	48+78.09	-8.75	726.53	726.55
C	48+88.09	-8.75	726.48	726.53
D	48+98.09	-8.75	726.43	726.50
E	49+08.09	-8.75	726.36	726.46
F	49+18.09	-8.75	726.29	726.40
G	49+28.09	-8.75	726.21	726.32
H	49+38.09	-8.75	726.12	726.23
I	49+48.09	-8.75	726.03	726.12
J	49+58.09	-8.75	725.92	726.00
K	49+68.09	-8.75	725.81	725.87
L	49+78.09	-8.75	725.69	725.73
M	49+88.09	-8.75	725.56	725.60
N	49+98.09	-8.75	725.43	725.46
☒ Brg. Pier	50+03.76	-8.75	725.35	725.37
O	50+13.76	-8.75	725.20	725.25
P	50+23.76	-8.75	725.05	725.13
Q	50+33.76	-8.75	724.89	725.00
R	50+43.76	-8.75	724.72	724.86
S	50+53.76	-8.75	724.54	724.72
T	50+63.76	-8.75	724.36	724.57
U	50+73.76	-8.75	724.16	724.41
V	50+83.76	-8.75	723.96	724.20
W	50+93.76	-8.75	723.76	723.98
X	51+03.76	-8.75	723.54	723.75
Y	51+13.76	-8.75	723.32	723.50
Z	51+23.76	-8.75	723.09	723.21
A1	51+33.76	-8.75	722.85	722.92
☒ Brg. E. Abut.	51+44.09	-8.75	722.59	722.61
Bk. of E. Abut.	51+46.09	-8.75	722.54	722.56

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. of W. Abut.	48+73.58	-2.92	726.64	726.66
☒ Brg. W. Abut.	48+75.58	-2.92	726.63	726.65
C	48+85.58	-2.92	726.59	726.63
D	48+95.58	-2.92	726.53	726.61
E	49+05.58	-2.92	726.47	726.57
F	49+15.58	-2.92	726.40	726.50
G	49+25.58	-2.92	726.32	726.43
H	49+35.58	-2.92	726.23	726.34
I	49+45.58	-2.92	726.14	726.23
J	49+55.58	-2.92	726.04	726.11
K	49+65.58	-2.92	725.93	725.98
L	49+75.58	-2.92	725.81	725.85
M	49+85.58	-2.92	725.68	725.72
N	49+95.58	-2.92	725.55	725.58
☒ Brg. Pier	50+01.25	-2.92	725.47	725.49
O	50+11.25	-2.92	725.33	725.38
P	50+21.25	-2.92	725.18	725.26
Q	50+31.25	-2.92	725.02	725.13
R	50+41.25	-2.92	724.85	724.99
S	50+51.25	-2.92	724.67	724.85
T	50+61.25	-2.92	724.49	724.70
U	50+71.25	-2.92	724.30	724.54
V	50+81.25	-2.92	724.10	724.33
W	50+91.25	-2.92	723.90	724.12
X	51+01.25	-2.92	723.68	723.90
Y	51+11.25	-2.92	723.46	723.64
Z	51+21.25	-2.92	723.23	723.36
A1	51+31.25	-2.92	722.99	723.07
☒ Brg. E. Abut.	51+41.58	-2.92	722.74	722.76
Bk. of E. Abut.	51+43.58	-2.92	722.69	722.71

DESIGNED -	DAVID H. RICHTER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / R.P.N.

EXAMINED	
PASSED	

DATE -	10-10-2024
REVISED -	_____
REVISED -	_____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 074-0088

SHEET 4 OF 30 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1532	74-69BR	PIATT	78	42
CONTRACT NO. 70629				
		ILLINOIS	FED. AID PROJECT	

MODEL: 0740088-70629-005
FILE NAME: p:\cadd\pwbentley.com\FWIDOT\Documents\IDOT_O ces\Bureau of Bridges and Structures\OBM Projects\0740088\CADData\Bridge\0740088-70629-Design.dgn

⌄ ROADWAY & P.G.				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. of W. Abut.	48+72.33	0.00	726.69	726.71
⌄ Brg. W. Abut.	48+74.33	0.00	726.68	726.70
C	48+84.33	0.00	726.64	726.68
D	48+94.33	0.00	726.58	726.66
E	49+04.33	0.00	726.52	726.62
F	49+14.33	0.00	726.45	726.56
G	49+24.33	0.00	726.37	726.48
H	49+34.33	0.00	726.29	726.40
I	49+44.33	0.00	726.19	726.29
J	49+54.33	0.00	726.09	726.17
K	49+64.33	0.00	725.98	726.04
L	49+74.33	0.00	725.87	725.91
M	49+84.33	0.00	725.74	725.78
N	49+94.33	0.00	725.61	725.64
⌄ Brg. Pier	50+00.00	0.00	725.54	725.56
O	50+10.00	0.00	725.39	725.44
P	50+20.00	0.00	725.24	725.32
Q	50+30.00	0.00	725.08	725.19
R	50+40.00	0.00	724.91	725.06
S	50+50.00	0.00	724.74	724.92
T	50+60.00	0.00	724.56	724.77
U	50+70.00	0.00	724.37	724.61
V	50+80.00	0.00	724.17	724.40
W	50+90.00	0.00	723.97	724.19
X	51+00.00	0.00	723.75	723.97
Y	51+10.00	0.00	723.53	723.72
Z	51+20.00	0.00	723.30	723.43
A1	51+30.00	0.00	723.07	723.14
⌄ Brg. E. Abut.	51+40.33	0.00	722.82	722.84
Bk. of E. Abut.	51+42.33	0.00	722.77	722.79

GIRDER 4				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. of W. Abut.	48+71.08	2.92	726.65	726.67
⌄ Brg. W. Abut.	48+73.08	2.92	726.64	726.66
C	48+83.08	2.92	726.60	726.65
D	48+93.08	2.92	726.54	726.62
E	49+03.08	2.92	726.48	726.59
F	49+13.08	2.92	726.41	726.52
G	49+23.08	2.92	726.34	726.45
H	49+33.08	2.92	726.25	726.36
I	49+43.08	2.92	726.16	726.26
J	49+53.08	2.92	726.06	726.14
K	49+63.08	2.92	725.95	726.01
L	49+73.08	2.92	725.84	725.88
M	49+83.08	2.92	725.72	725.75
N	49+93.08	2.92	725.59	725.61
⌄ Brg. Pier	49+98.74	2.92	725.51	725.53
O	50+08.74	2.92	725.37	725.42
P	50+18.74	2.92	725.22	725.30
Q	50+28.74	2.92	725.06	725.17
R	50+38.74	2.92	724.89	725.04
S	50+48.74	2.92	724.72	724.89
T	50+58.74	2.92	724.54	724.75
U	50+68.74	2.92	724.35	724.59
V	50+78.74	2.92	724.15	724.39
W	50+88.74	2.92	723.95	724.17
X	50+98.74	2.92	723.74	723.95
Y	51+08.74	2.92	723.52	723.70
Z	51+18.74	2.92	723.29	723.42
A1	51+28.74	2.92	723.05	723.13
⌄ Brg. E. Abut.	51+39.08	2.92	722.80	722.82
Bk. of E. Abut.	51+41.08	2.92	722.75	722.77

DESIGNED -	DAVID H. RICHTER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / R.P.N.

EXAMINED	
PASSED	

DATE -	10-10-2024
REVISED -	_____
REVISED -	_____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 074-0088

SHEET 5 OF 30 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1532	74-69BR	PIATT	78	43
CONTRACT NO. 70629				
ILLINOIS		FED. AID PROJECT		

MODEL: 0740088-70629-006
FILE NAME: pw:///lidoi-pw.bentley.com:FWIDOT/Documents/IDOT O ces/Bureau of Bridges and Structures/OBM Projects/0740088/CADData/Bridge/0740088-70629-Design.dgn

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. of W. Abut.	48+68.57	8.75	726.57	726.59
⌒ Brg. W. Abut.	48+70.57	8.75	726.57	726.59
C	48+80.57	8.75	726.52	726.57
D	48+90.57	8.75	726.47	726.55
E	49+00.57	8.75	726.41	726.51
F	49+10.57	8.75	726.34	726.45
G	49+20.57	8.75	726.27	726.38
H	49+30.57	8.75	726.19	726.30
I	49+40.57	8.75	726.10	726.19
J	49+50.57	8.75	726.00	726.08
K	49+60.57	8.75	725.89	725.95
L	49+70.57	8.75	725.78	725.82
M	49+80.57	8.75	725.66	725.69
N	49+90.57	8.75	725.53	725.56
⌒ Brg. Pier	49+96.24	8.75	725.46	725.48
O	50+06.24	8.75	725.32	725.37
P	50+16.24	8.75	725.17	725.25
Q	50+26.24	8.75	725.01	725.12
R	50+36.24	8.75	724.85	724.99
S	50+46.24	8.75	724.68	724.85
T	50+56.24	8.75	724.50	724.70
U	50+66.24	8.75	724.31	724.55
V	50+76.24	8.75	724.12	724.35
W	50+86.24	8.75	723.91	724.14
X	50+96.24	8.75	723.70	723.92
Y	51+06.24	8.75	723.49	723.67
Z	51+16.24	8.75	723.26	723.39
AI	51+26.24	8.75	723.03	723.10
⌒ Brg. E. Abut.	51+36.57	8.75	722.78	722.80
Bk. of E. Abut.	51+38.57	8.75	722.73	722.75

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. of W. Abut.	48+66.06	14.58	726.48	726.50
⌒ Brg. W. Abut.	48+68.06	14.58	726.48	726.50
C	48+78.06	14.58	726.43	726.48
D	48+88.06	14.58	726.38	726.46
E	48+98.06	14.58	726.33	726.43
F	49+08.06	14.58	726.26	726.37
G	49+18.06	14.58	726.19	726.30
H	49+28.06	14.58	726.11	726.22
I	49+38.06	14.58	726.02	726.12
J	49+48.06	14.58	725.92	726.00
K	49+58.06	14.58	725.82	725.88
L	49+68.06	14.58	725.71	725.75
M	49+78.06	14.58	725.59	725.62
N	49+88.06	14.58	725.46	725.49
⌒ Brg. Pier	49+93.73	14.58	725.39	725.41
O	50+03.73	14.58	725.25	725.30
P	50+13.73	14.58	725.10	725.19
Q	50+23.73	14.58	724.95	725.06
R	50+33.73	14.58	724.79	724.93
S	50+43.73	14.58	724.62	724.79
T	50+53.73	14.58	724.44	724.65
U	50+63.73	14.58	724.26	724.50
V	50+73.73	14.58	724.06	724.30
W	50+83.73	14.58	723.86	724.09
X	50+93.73	14.58	723.66	723.87
Y	51+03.73	14.58	723.44	723.62
Z	51+13.73	14.58	723.22	723.35
AI	51+23.73	14.58	722.99	723.06
⌒ Brg. E. Abut.	51+34.06	14.58	722.74	722.76
Bk. of E. Abut.	51+36.06	14.58	722.69	722.71

DESIGNED -	DAVID H. RICHTER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / R.P.N.

EXAMINED	
	ENGINEER OF BRIDGE DESIGN
PASSED	
	ENGINEER OF BRIDGES AND STRUCTURES

DATE -	10-10-2024
REVISED -	_____
REVISED -	_____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 074-0088

SHEET 6 OF 30 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1532	74-69BR	PIATT	78	44
CONTRACT NO. 70629				
		ILLINOIS	FED. AID PROJECT	

MODEL: 0740088-70629-007
FILE NAME: pw:///lido-pxw/bentley.com:FWIDOT/Documents/IDOT O ces/Bureau of Bridges and Structures/OBM Projects/0740088/CADDData/Bridge/0740088-70629-Design.dgn

NORTH EDGE OF SHOULDER

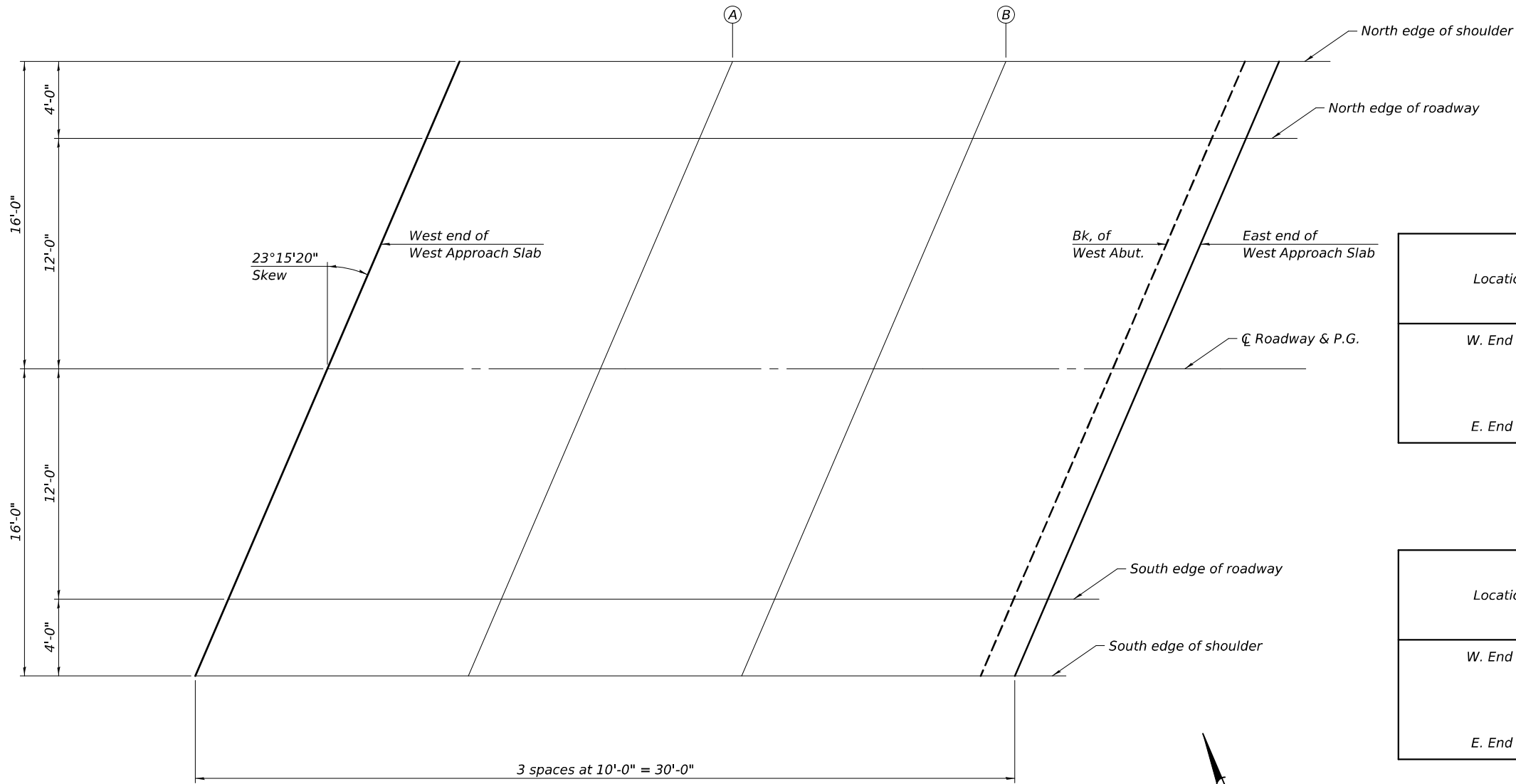
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Appr.	48+50.29	-16.00	726.50	726.52
A	48+60.29	-16.00	726.47	726.49
B	48+70.29	-16.00	726.44	726.46
E. End of W. Appr.	48+80.29	-16.00	726.40	726.42

NORTH EDGE OF ROAWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Appr.	48+48.57	-12.00	726.59	726.61
A	48+58.57	-12.00	726.56	726.58
B	48+68.57	-12.00	726.53	726.55
E. End of W. Appr.	48+78.57	-12.00	726.48	726.50

CL ROADWAY & P.G.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Appr.	48+43.41	0.00	726.78	726.80
A	48+53.41	0.00	726.76	726.78
B	48+63.41	0.00	726.72	726.74
E. End of W. Appr.	48+73.41	0.00	726.69	726.71



SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Appr.	48+38.26	12.00	726.61	726.63
A	48+48.26	12.00	726.59	726.61
B	48+58.26	12.00	726.56	726.58
E. End of W. Appr.	48+68.26	12.00	726.53	726.55

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Appr.	48+36.54	16.00	726.53	726.55
A	48+46.54	16.00	726.51	726.53
B	48+56.54	16.00	726.49	726.51
E. End of W. Appr.	48+66.54	16.00	726.45	726.47

PLAN

DESIGNED -	DAVID H. RICHTER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / R.P.N.

EXAMINED	
PASSED	

DATE -	10-10-2024
REVISED -	_____
REVISED -	_____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF W. APPROACH SLAB ELEVATIONS
STRUCTURE NO. 074-0088

SHEET 7 OF 30 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1532	74-69BR	PIATT	78	45
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

MODEL: 0740088-70629-008
FILE NAME: pw:\jldot-gpw\benley.com\FWIDOT\Documents\IDOT O ces\Bureau of Bridges and Structures\OBM Projects\0740088\CADData\Bridge\0740088-70629-Design.dgn

NORTH EDGE OF SHOULDER

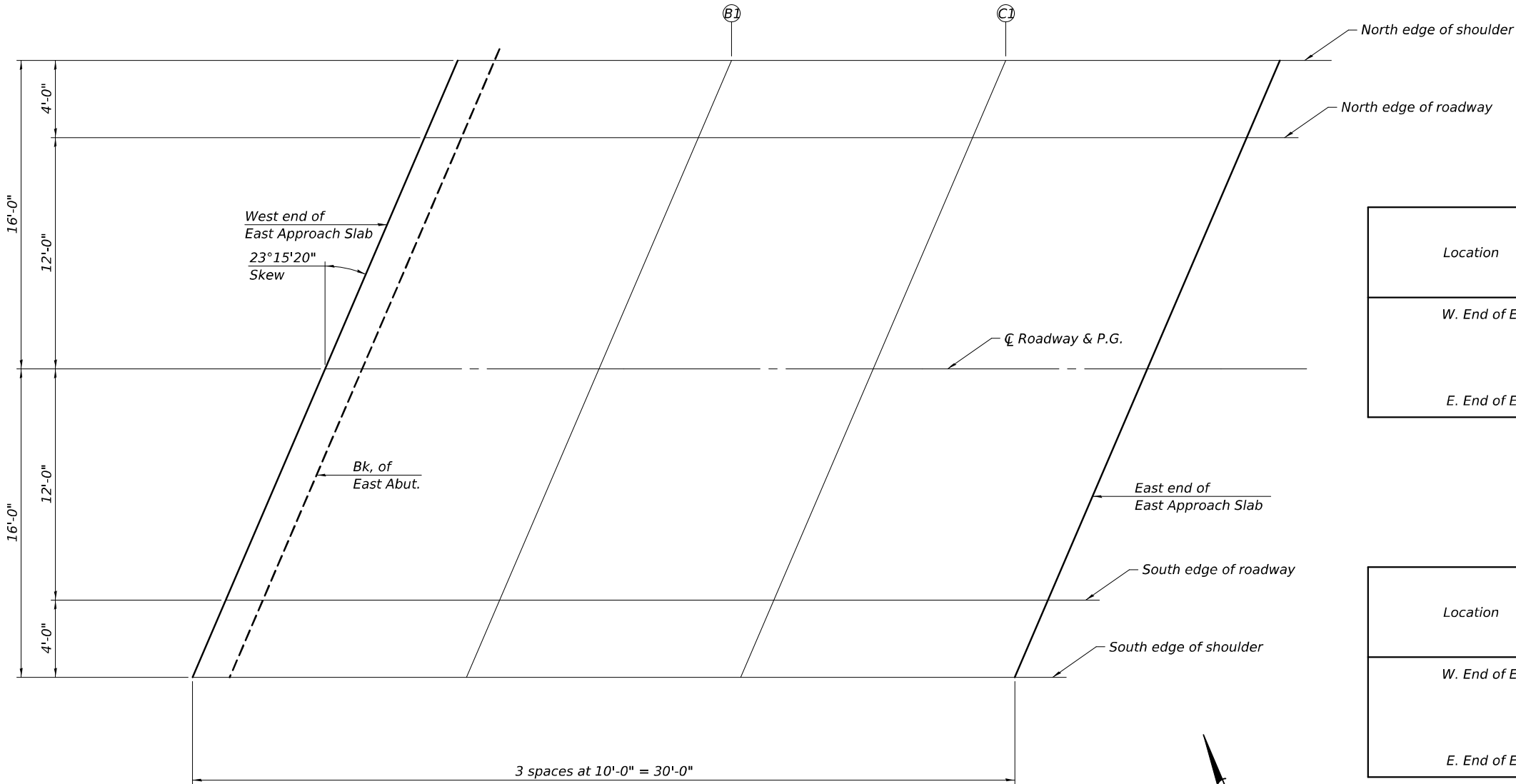
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Aprr.	51+48.12	-16.00	722.36	722.38
B1	51+58.12	-16.00	722.10	722.12
C1	51+68.12	-16.00	721.84	721.86
E. End of E. Aprr.	51+78.12	-16.00	721.57	721.59

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Aprr.	51+46.40	-12.00	722.48	722.50
B1	51+56.40	-12.00	722.23	722.25
C1	51+66.40	-12.00	721.96	721.98
E. End of E. Aprr.	51+76.40	-12.00	721.69	721.71

CL ROADWAY & P.G.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Aprr.	51+41.25	0.00	722.79	722.81
B1	51+51.25	0.00	722.54	722.56
C1	51+61.25	0.00	722.28	722.30
E. End of E. Aprr.	51+71.25	0.00	722.01	722.03



SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Aprr.	51+36.09	12.00	722.74	722.76
B1	51+46.09	12.00	722.49	722.51
C1	51+56.09	12.00	722.24	722.26
E. End of E. Aprr.	51+66.09	12.00	721.97	721.99

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Aprr.	51+34.37	16.00	722.70	722.72
B1	51+44.37	16.00	722.46	722.48
C1	51+54.37	16.00	722.20	722.22
E. End of E. Aprr.	51+64.37	16.00	721.94	721.96

PLAN

DESIGNED -	DAVID H. RICHTER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / R.P.N.

EXAMINED	<i>Mark Shuff</i>
PASSED	<i>Jayne F. Shuff</i>

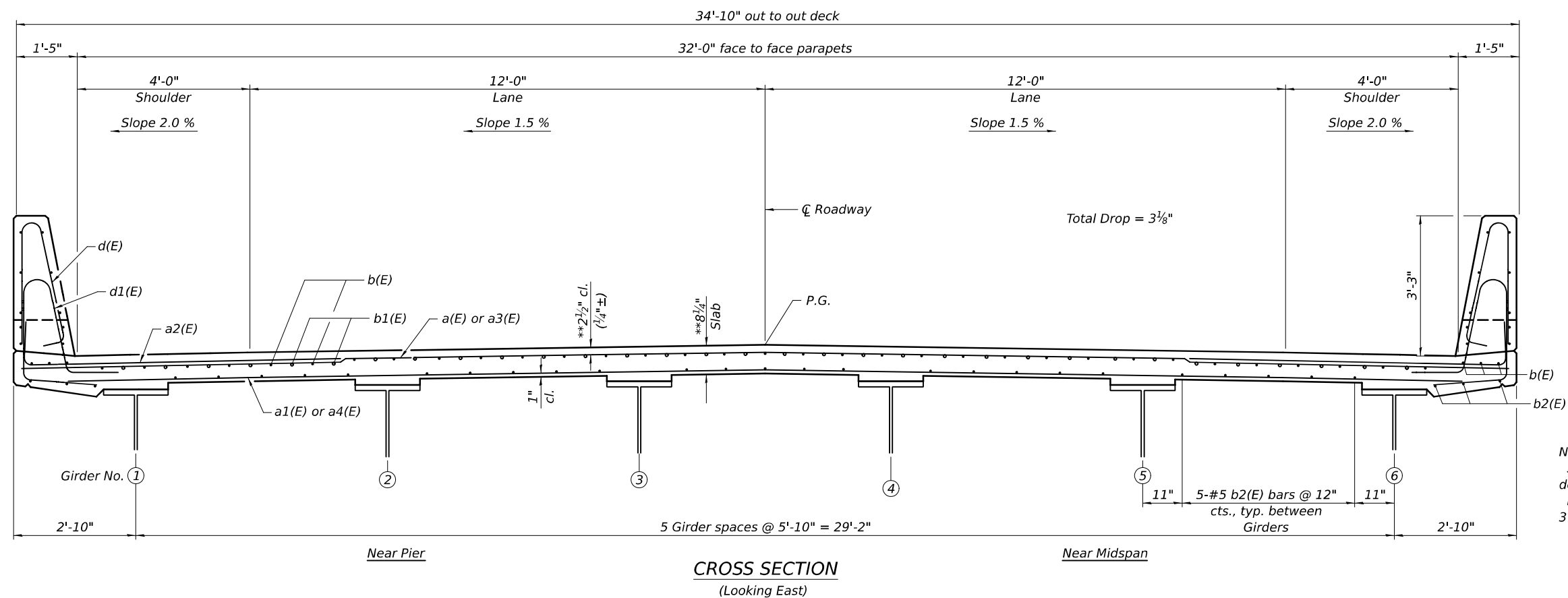
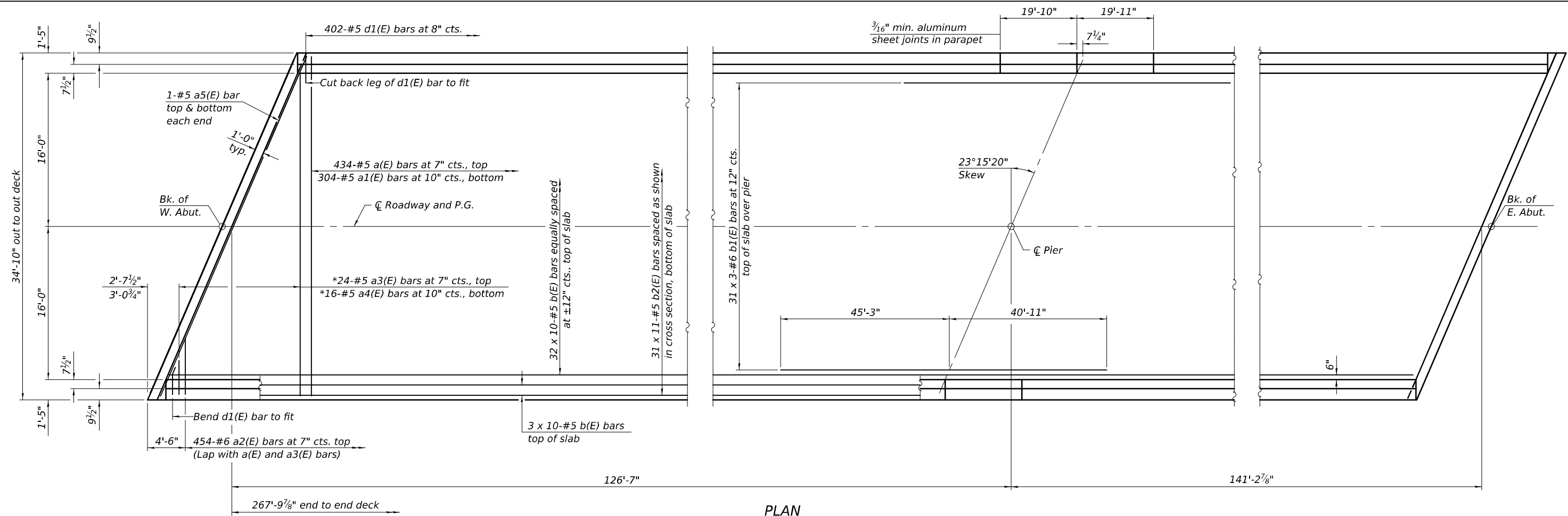
DATE -	10-10-2024
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF E. APPROACH SLAB ELEVATIONS
STRUCTURE NO. 074-0088

SHEET 8 OF 30 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1532	74-69BR	PIATT	78	46
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				



MINIMUM BAR LAP

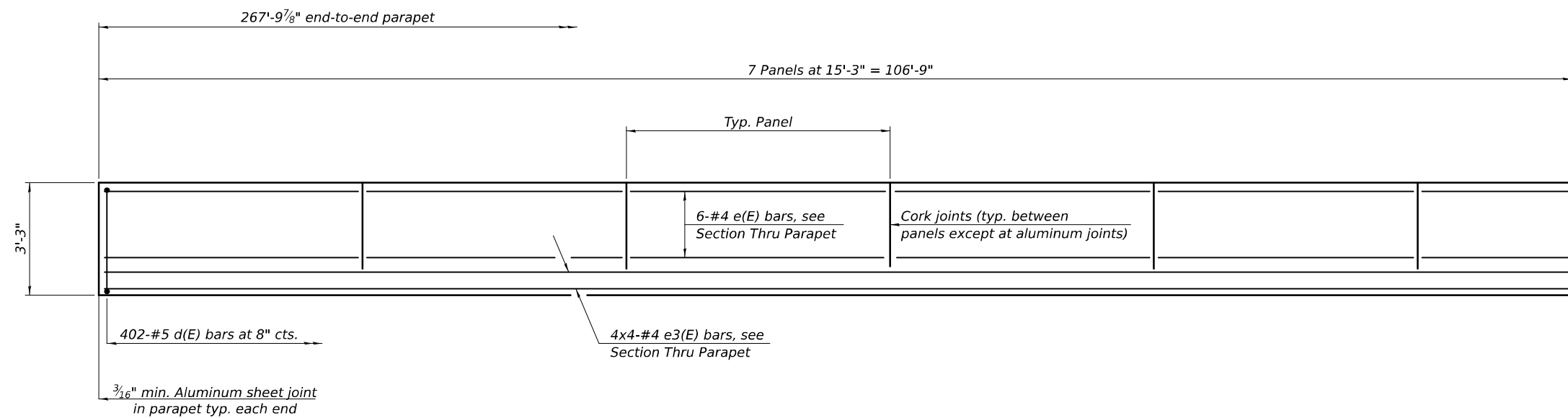
#5 bar = 3'-6"

#6 bar = 3'-7"

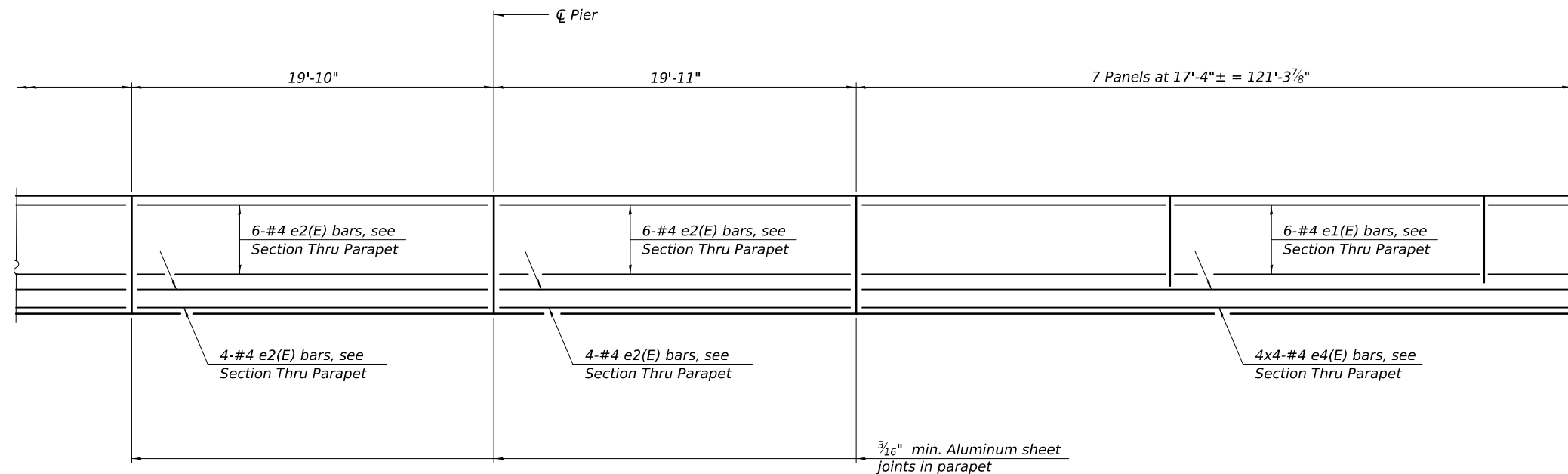
* See Field Cutting Diagram
on sheet 11 of 30.

** Prior to grinding

Notes:
See sheets 10 and 11 of 30 for superstructure details and Bill of Material.
Bars indicated thus 3 x 10-#5 etc. indicates 3 lines of bars with 10 lengths per line.



MINIMUM BAR LAP
#4 bar = 2'-5"



INSIDE ELEVATION OF PARAPET

DESIGNED	-	DAVID H. RICHTER
CHECKED	-	RYAN P. NEGANGARD
DRAWN	-	GLENN W. STOVER
CHECKED	-	D.H.R. / R.P.N.

EXAMINED	
	ENGINEER OF BRIDGE DESIGN
PASSED	
	ENGINEER OF BRIDGES AND STRUCTURES

DATE	-	10-10-2024
REVISED	-	_____
REVISED	-	_____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 074-0088

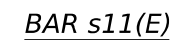
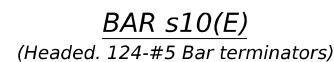
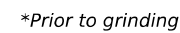
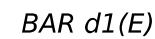
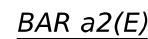
SHEET 10 OF 30 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1532	74-69BR	PIATT	78	48
		CONTRACT NO. 70629		
		ILLINOIS	FED. AID PROJECT	

The 3/16" min. aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated with 5 mils of either bitumen paint or epoxy paint to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

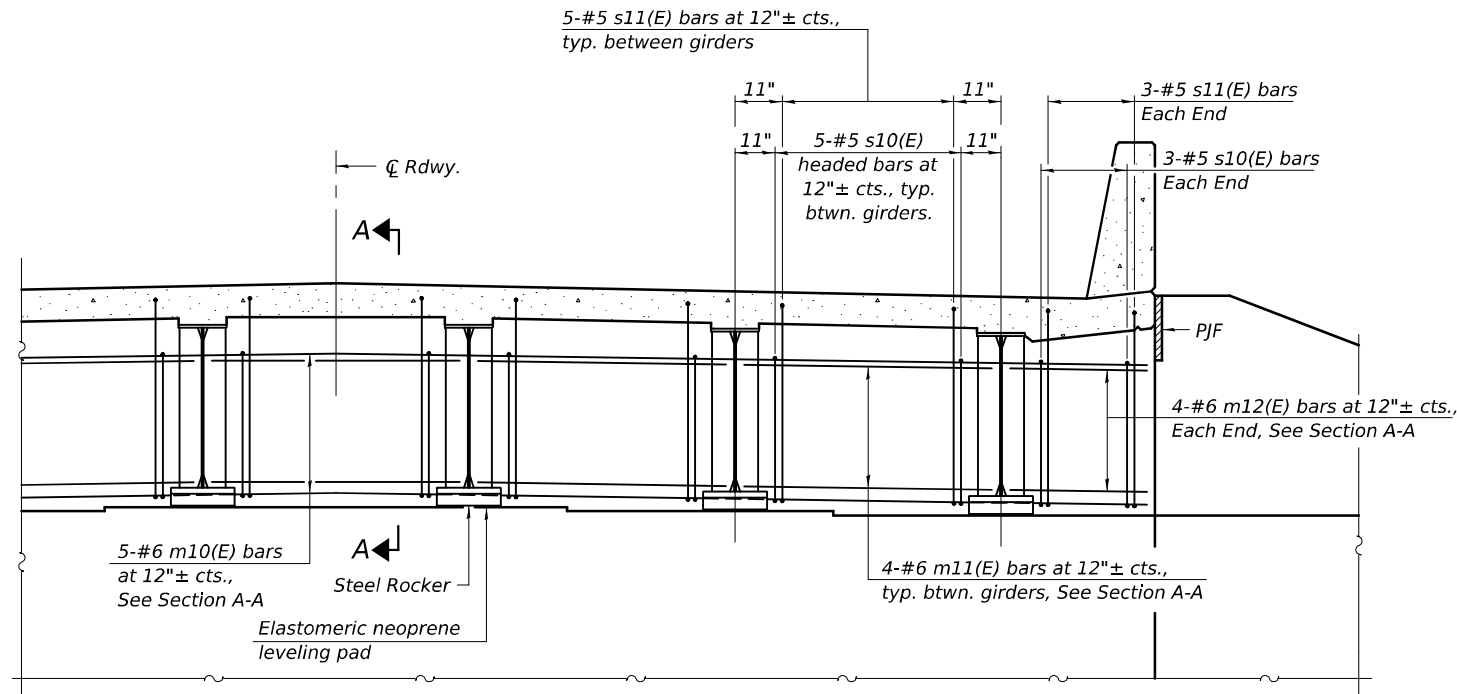
Bar terminators, paid for separately. See Total Bill of Material.



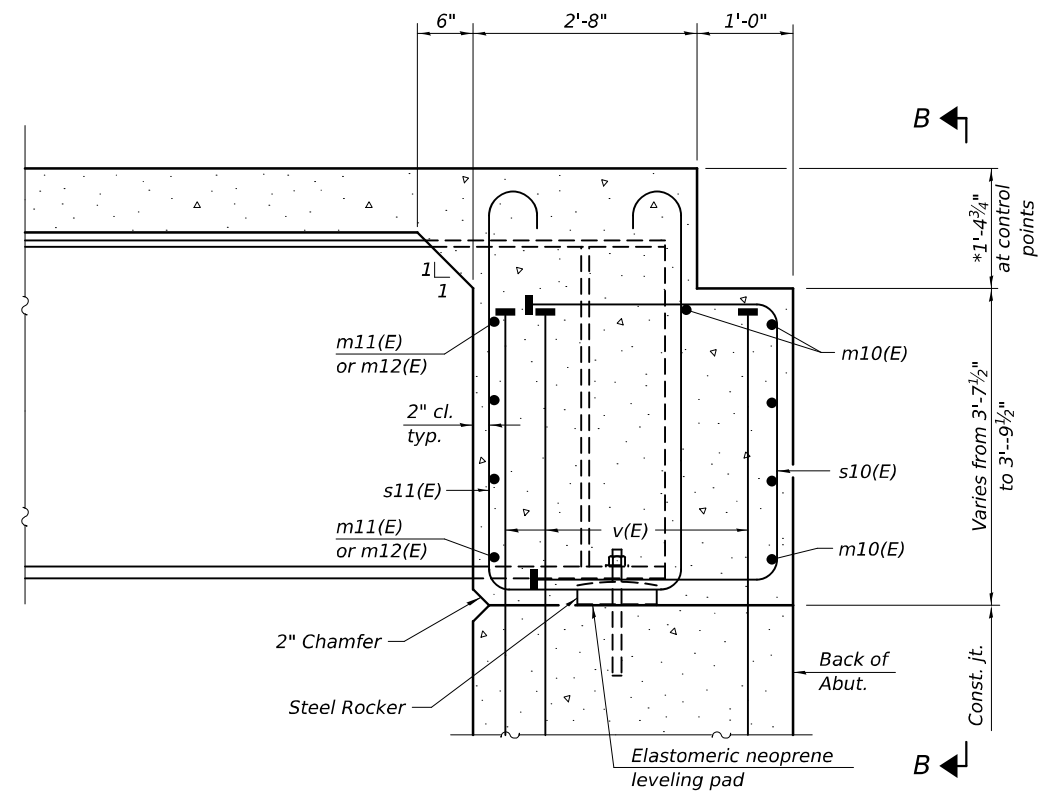
Order a3(E) and a4(E) bars full length.
Cut as shown and use remainder of
bars in opposite end of deck.

SUPERSTRUCTURE
BILL OF MATERIAL

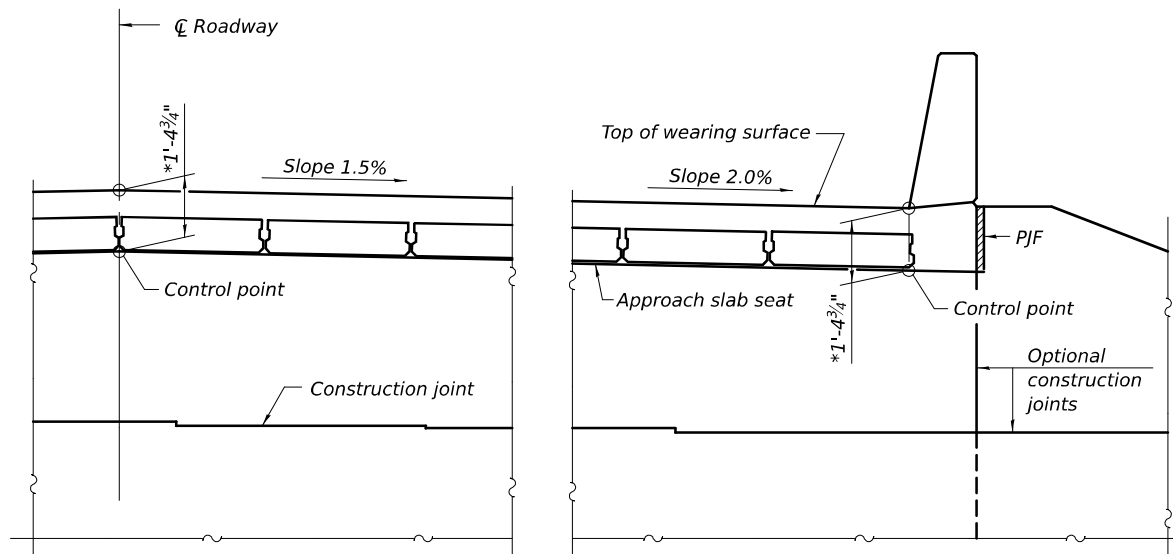
Bar	No.	Size	Length	Shape
a(E)	434	#5	34'-6"	————
a1(E)	304	#5	32'-10"	————
a2(E)	908	#6	8'-4"	└————
a3(E)	24	#5	37'-3"	————
a4(E)	16	#5	35'-1"	————
a5(E)	4	#5	37'-7"	————
b(E)	380	#5	29'-11"	————
b1(E)	93	#6	31'-2"	————
b2(E)	341	#5	27'-6"	————
d(E)	804	#5	6'-5"	└┐
d1(E)	804	#5	7'-9"	└┐
e(E)	84	#4	14'-11"	————
e1(E)	84	#4	17'-0"	————
e2(E)	40	#4	19'-7"	————
e3(E)	32	#4	28'-6"	————
e4(E)	32	#4	32'-1"	————
m10(E)	10	#6	37'-7"	————
m11(E)	40	#6	6'-0"	————
m12(E)	16	#6	2'-9"	————
s10(E)	62	#5	8'-2"	┌┐
s11(E)	62	#5	12'-8"	┌┐
Reinforcement Bars, Epoxy Coated			Pound	82,890
Concrete Superstructure			Cu. Yd.	367.2



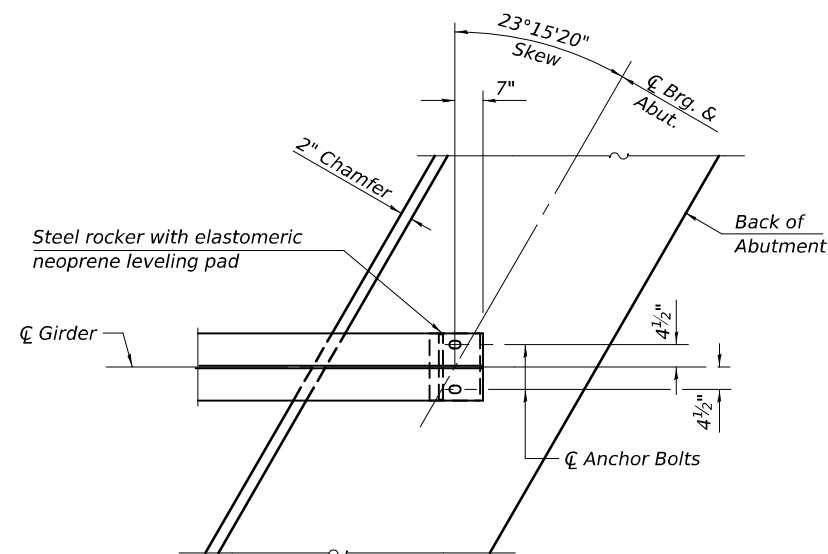
DIAPHRAGM AT ABUTMENT



SECTION A-A
(at Rt. L's)



VIEW B-B



PLAN AT ABUTMENT
(Showing bottom flange of beam)

*Prior to grinding

Notes:
See sheets 10 and 11 of 30 for superstructure details and Bill of Material.
See sheet 13 of 30 for P.J.F. details.
The s10(E) and s11(E) bars shall be placed parallel to the beams.
Spacing for these bars shall be at right angles to the beams.
The approach slab seat shall have a constant slope determined from the control points shown.

MODEL: 0740088-70629-012
FILE NAME: pw:///lido-epw/bentley.com:FWIDOT/Documents/IDOT O ces/Bureau of Bridges and Structures/OBM Projects/0740088/CADDData/Bridge/0740088-70629-Design.dgn

DESIGNED -	DAVID H. RICHTER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / R.P.N.

EXAMINED
PASSED

Mark Shuff
ENGINEER OF BRIDGE DESIGN
Jayne F. [Signature]
ENGINEER OF BRIDGES AND STRUCTURES

DATE - 10-10-2024

REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

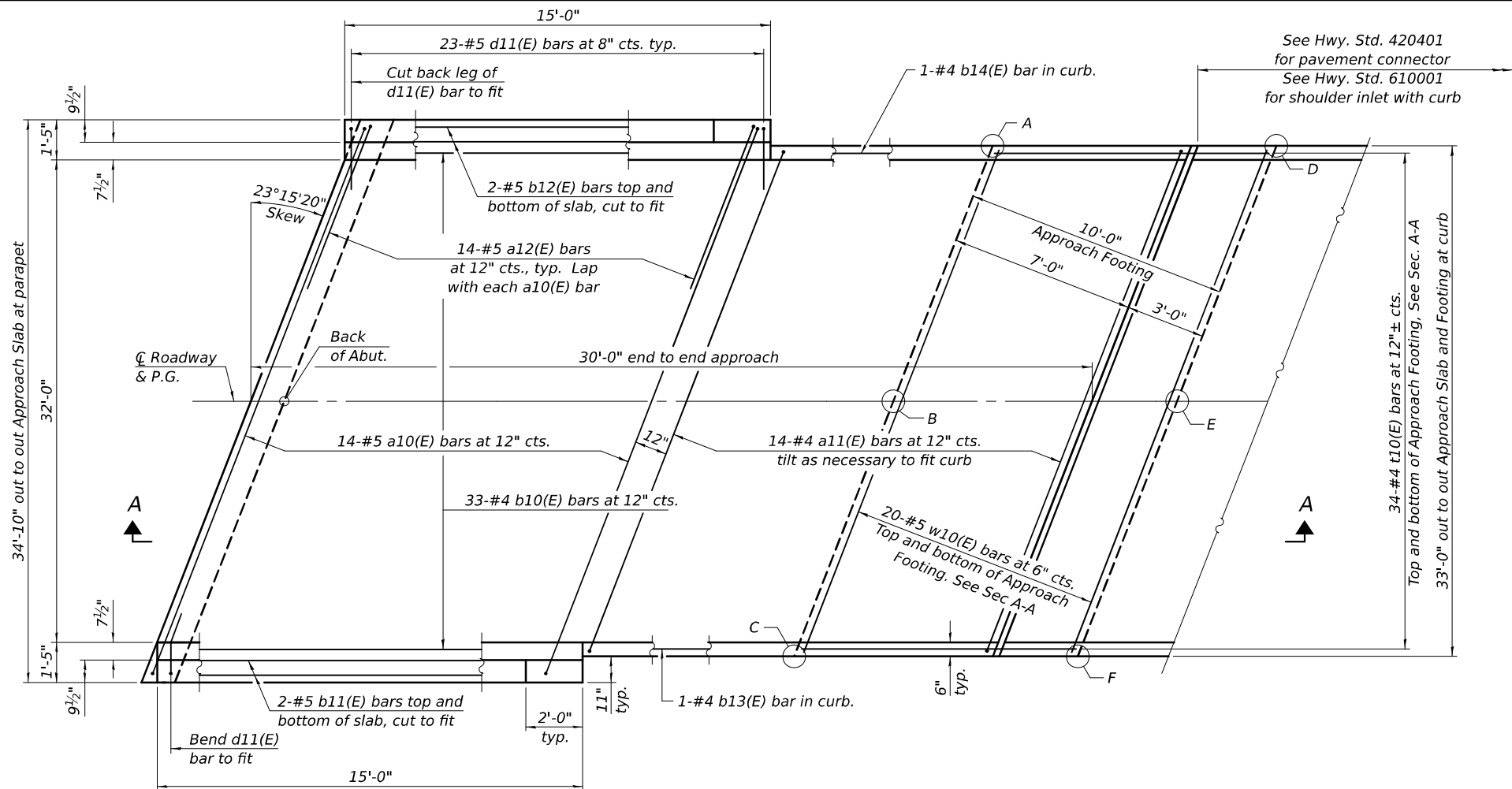
DIAPHRAGM DETAILS
STRUCTURE NO. 074-0088

SHEET 12 OF 30 SHEETS

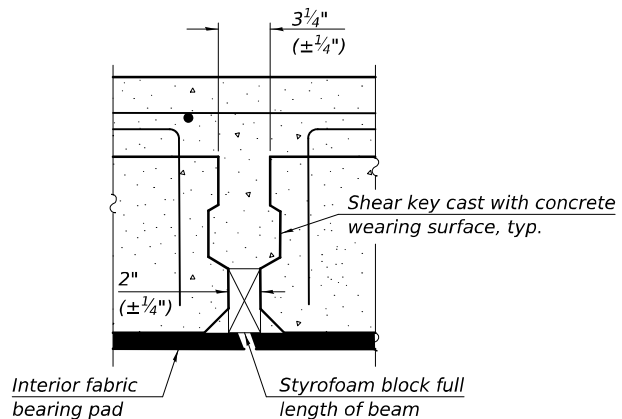
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1532	74-69BR	PIATT	78	50
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

10/10/2024 2:21:47 PM

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FILE NAME: pw:///lido-pw/bentley.com:FWIDOT/Docs/Structures/OBM Projects/0740088/CADDData/Bridge/0740088-70629-Design.dgn



PLAN
(East approach slab shown; West approach slab similar by 180° rotation)

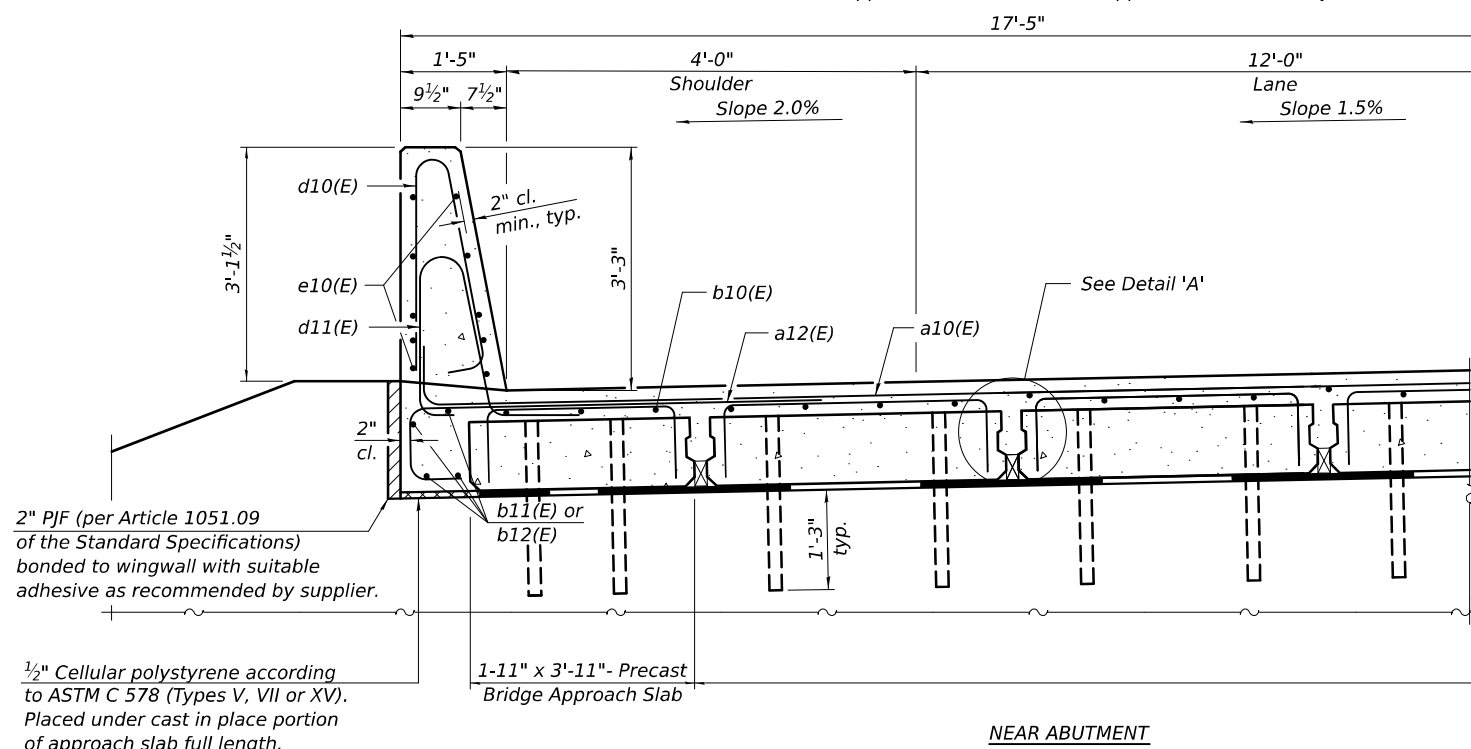


DETAIL 'A'

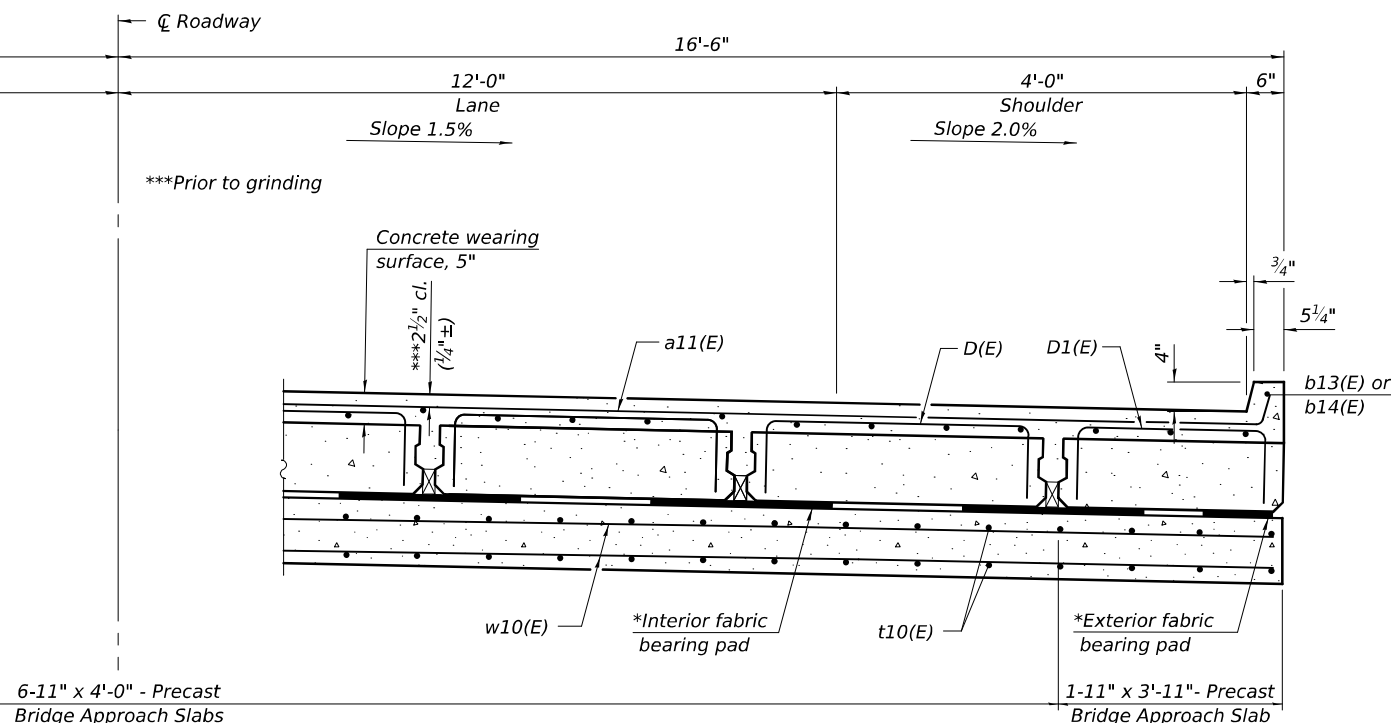
TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING

West Approach			East Approach		
Point/ Location	Top	Bottom	Point/ Location	Top	Bottom
A - SE	725.13	724.30	A - NW	720.38	719.55
B - E C	725.39	724.55	B - W C	720.84	720.01
C - NE	725.10	724.26	C - SW	720.76	719.93
D - SW	725.15	724.32	D - NE	720.08	719.25
E - W C	725.41	724.58	E - E C	720.55	719.72
F - NW	725.13	724.29	F - SE	720.47	719.64

* Fabric bearing pads at the expansion end shall be recessed 1/4" into the approach footing and bonded. Adjusting shims, when required, shall be bonded to the top of the fabric bearing pads.



NEAR ABUTMENT



CROSS SECTION
(Looking East)

AT APPROACH FOOTING

(Beams: 36" min. width; 72" max. width)

(Sheet 1 of 3)

DESIGNED -	DAVID H. RICHTER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / R.P.N.

EXAMINED	<i>Mark Shuff</i>	DATE -	10-10-2024
PASSED	<i>Jayne F. [Signature]</i>	REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

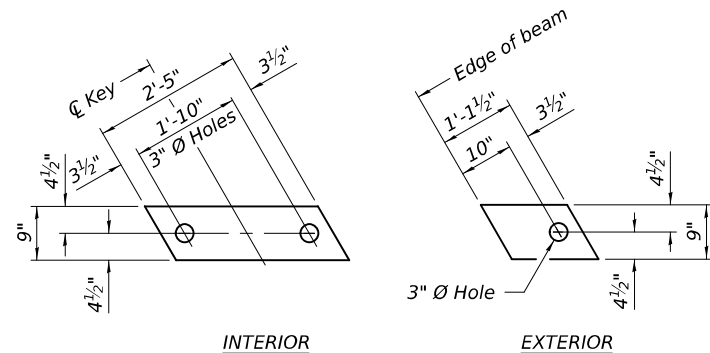
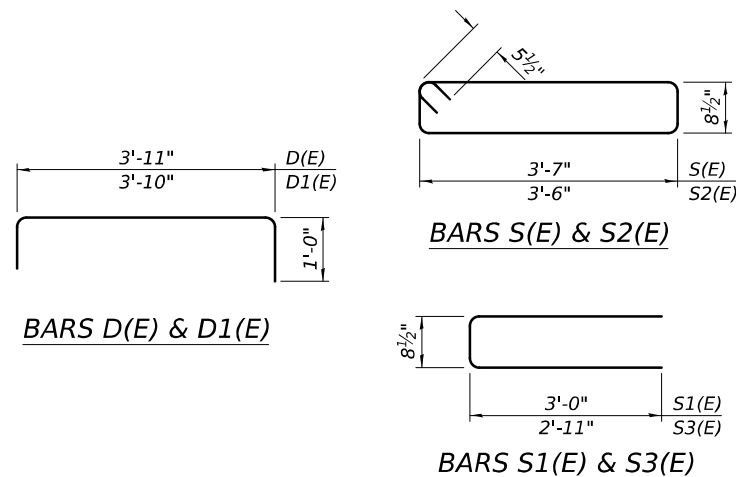
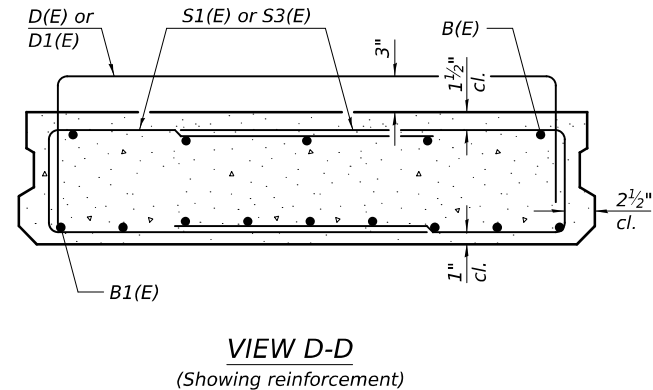
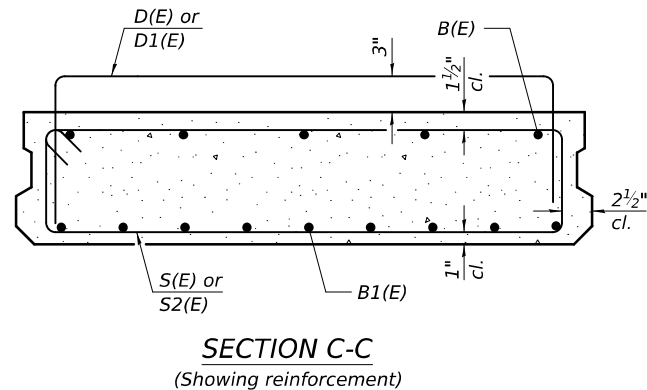
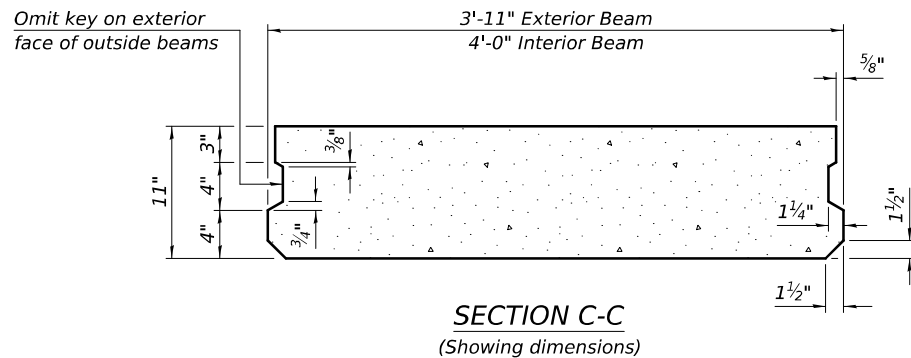
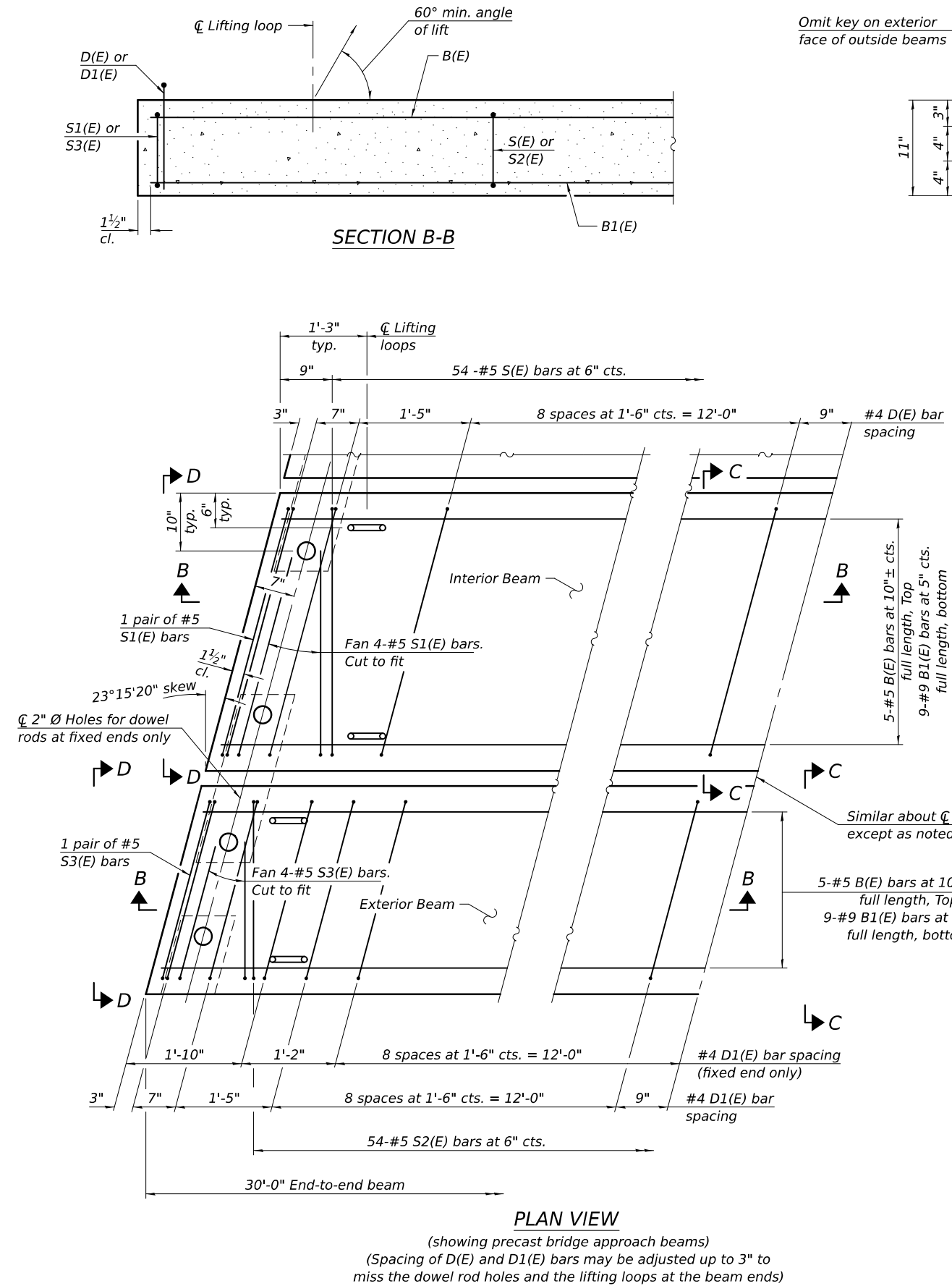
PRECAST BRIDGE APPROACH SLAB
STRUCTURE NO. 074-0088

SHEET 13 OF 30 SHEETS

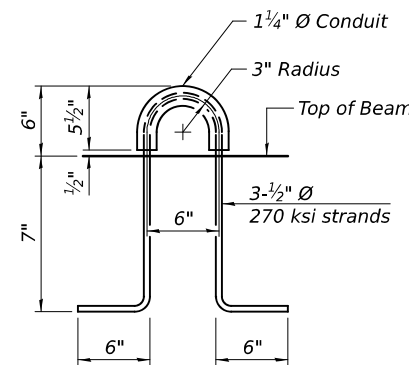
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1532	74-69BR	PIATT	78	51
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

10/10/2024 2:21:48 PM

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FILE NAME: p:\idiot-pw\benley.com\FWIDOT\Documents\IDOT_O ces\Bureau of Bridges and Structures\OBM Projects\0740088\Bridge\0740088-70629-Design.dgn
10/10/2024 2:21:48 PM



Notes:
Bearing pads at fixed end shall be 1/2" thick and bearing pads at expansion end shall be 3/4" thick.
Omit holes for fabric bearing pads at approach slab footing end of beams.



(An alternate lifting loop with a proof load of 25,000 lbs. and utilized according to the manufacturer's recommendations may be used)

BA-PDP-39CS-L(≤30°) 03-08-2024

(Beams: 36" min. width; 72" max. width)

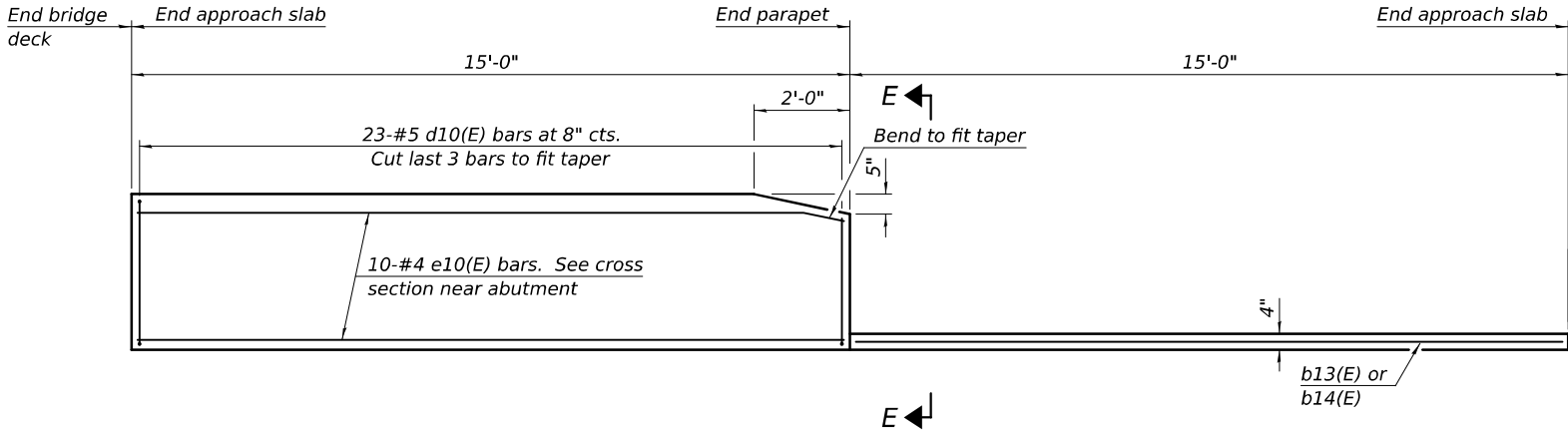
DESIGNED - DAVID H. RICHTER	EXAMINED - <i>Mark Shuff</i>	DATE - 10-10-2024
CHECKED - RYAN P. NEGANGARD	PASSED - <i>Jayne F. [Signature]</i>	REVISD -
DRAWN - GLENN W. STOVER	ENGINEER OF BRIDGES AND STRUCTURES	REVISD -
CHECKED - D.H.R. / R.P.N.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

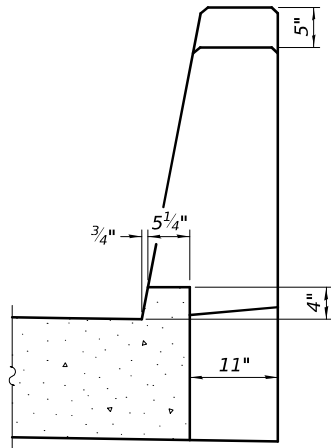
PRECAST BRIDGE APPROACH SLAB
STRUCTURE NO. 074-0088

SHEET 14 OF 30 SHEETS

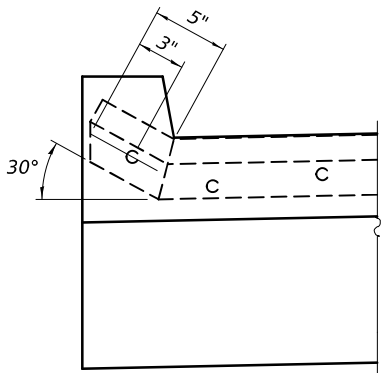
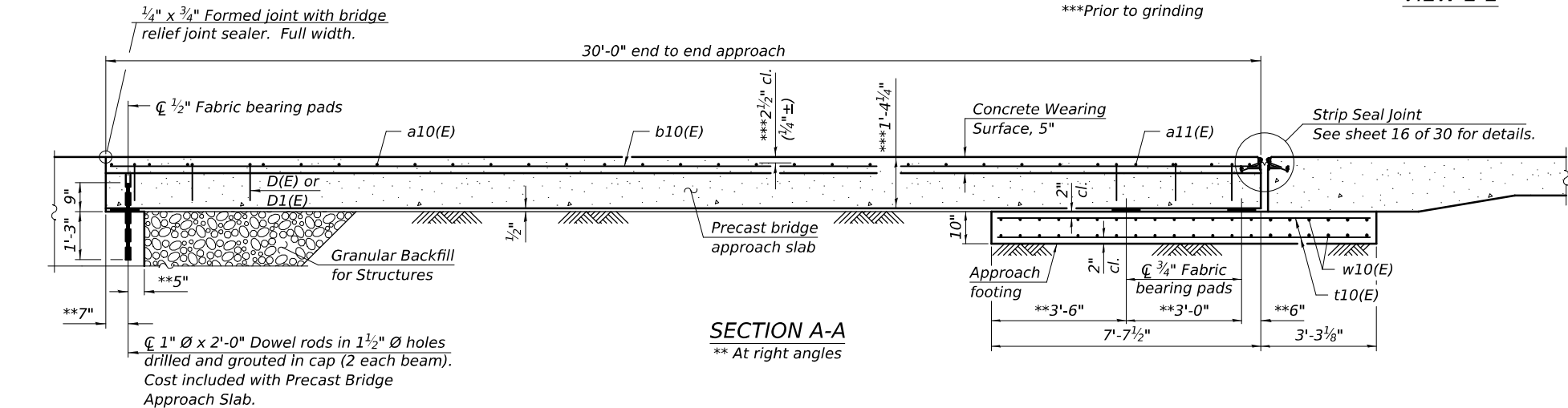
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1532	74-69BR	PIATT	78	52
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				



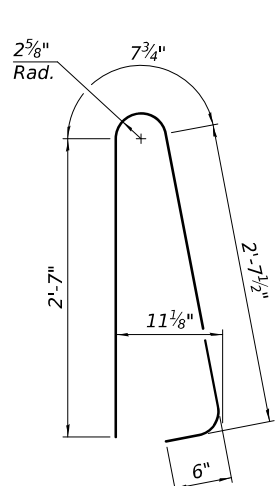
INSIDE ELEVATION OF PARAPET AND CURB



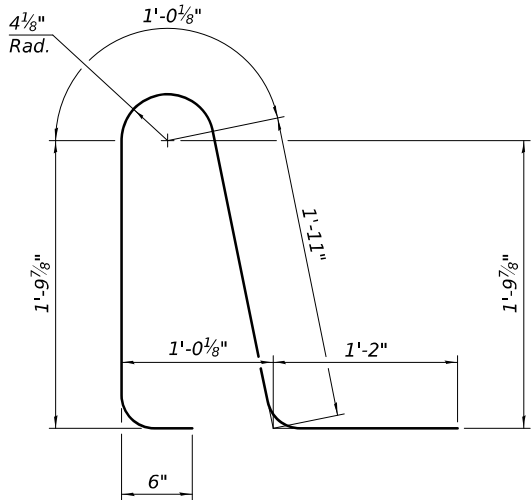
VIEW E-E



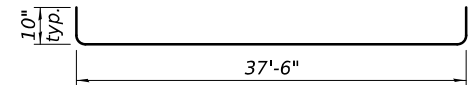
END OF SEAL



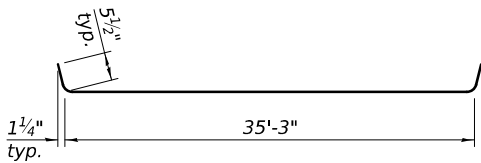
BAR d10(E)



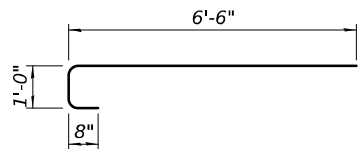
BAR d11(E)



BAR a10(E)



BAR a11(E)



BAR a12(E)

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	28	#5	39'-2"	
a11(E)	28	#4	36'-2"	
a12(E)	56	#5	8'-2"	
b10(E)	66	#4	29'-8"	
b11(E)	8	#5	15'-3"	
b12(E)	8	#5	14'-5"	
b13(E)	2	#4	14'-7"	
b14(E)	2	#4	14'-9"	
d10(E)	92	#5	6'-5"	
d11(E)	92	#5	6'-5"	
e10(E)	40	#4	14'-8"	
t10(E)	136	#4	10'-7"	
w10(E)	80	#5	35'-7"	
Concrete Superstructure			Cu. Yd.	7.8
Concrete Structures			Cu. Yd.	22.2
Reinforcement Bars, Epoxy Coated			Pound	9,450
Precast Bridge Approach Slab			Sq. Ft.	1,910
Concrete Wearing Surface, 5"			Sq. Yd.	226

(Beams: 36" min. width; 72" max. width)

(Sheet 3 of 3)

MODEL: 0740088-70629-015
FILE NAME: p:\w\lido-pw\benley.com\FWIDOT\Documents\OBM Projects\0740088\CADData\Bridge\0740088-70629-Design.dgn

DESIGNED -	DAVID H. RICHTER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / R.P.N.

EXAMINED	<i>Mark Shuff</i>	DATE -	10-10-2024
PASSED	<i>Jayne F. Shuff</i>	REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

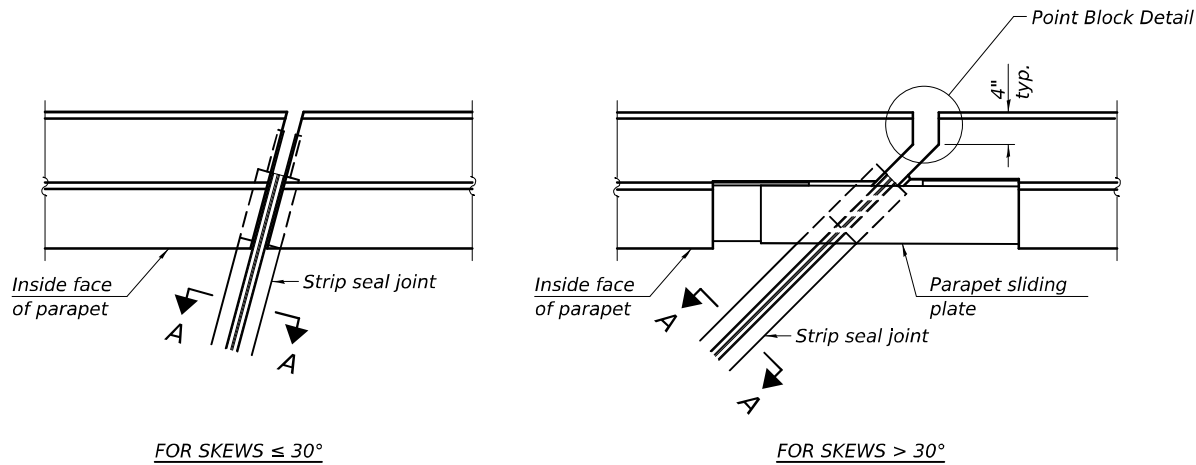
PRECAST BRIDGE APPROACH SLAB
STRUCTURE NO. 074-0088

SHEET 15 OF 30 SHEETS

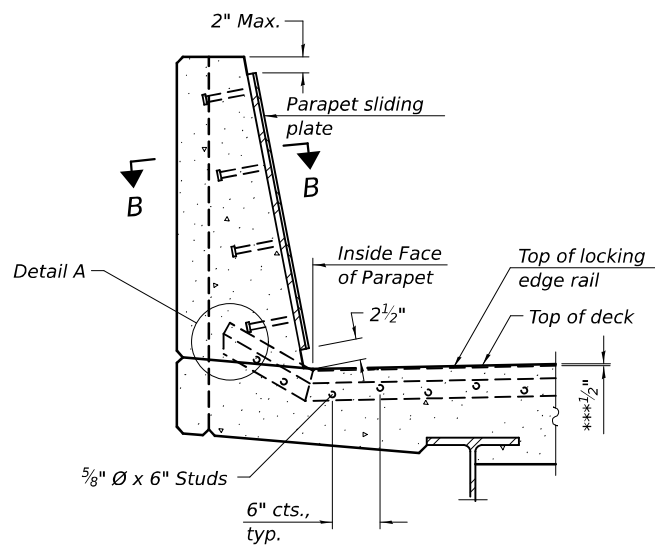
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1532	74-69BR	PIATT	78	53
CONTRACT NO. 70629				
ILLINOIS		FED. AID PROJECT		

10/10/2024 2:21:48 PM

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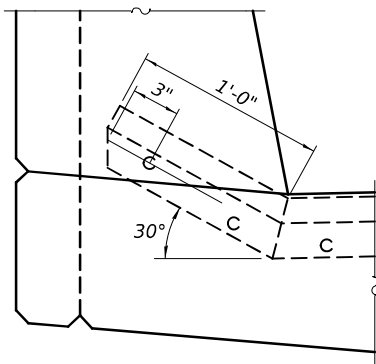


PLAN AT PARAPET



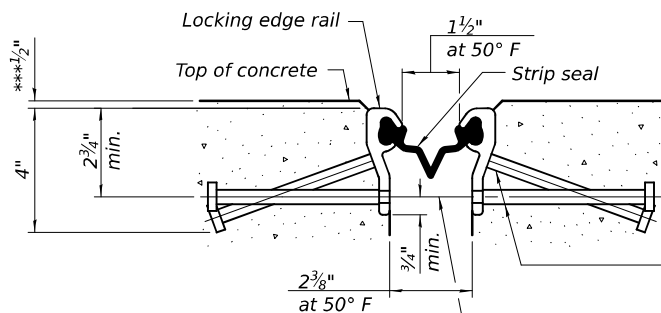
SECTION AT PARAPET

(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A

***Prior to grinding



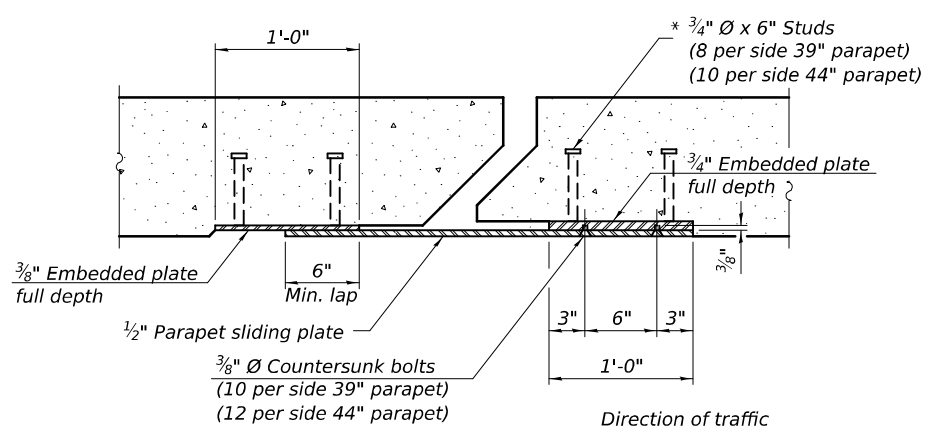
SHOWING ROLLED RAIL JOINT

* 5/8" $\varnothing$ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

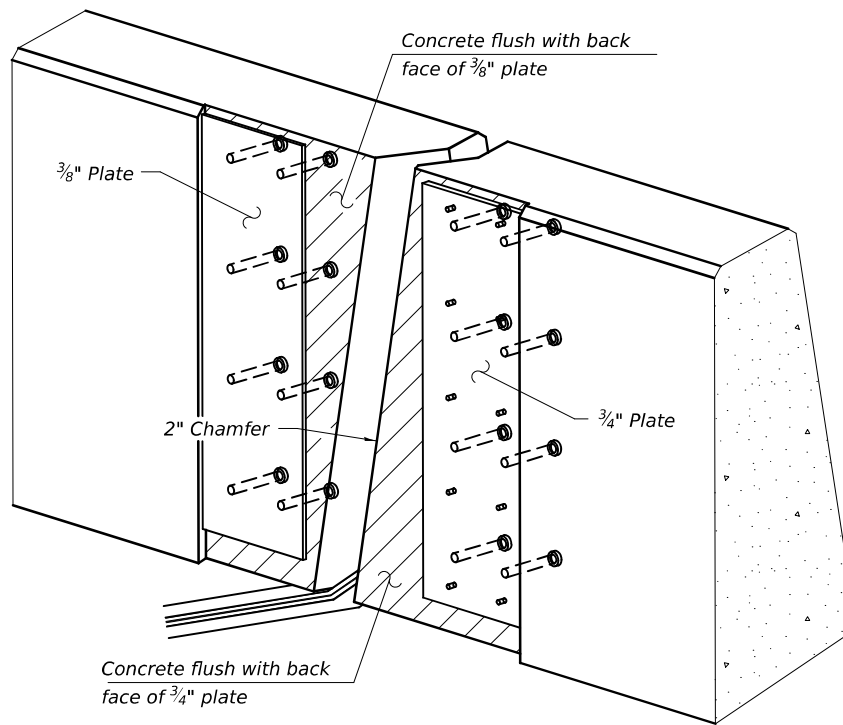
3/8" $\varnothing$ threaded rods in 7/16" $\varnothing$ holes at 4'-0" $\pm$ cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

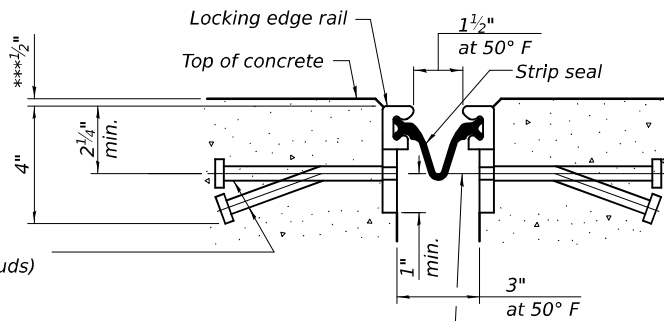


SECTION B-B

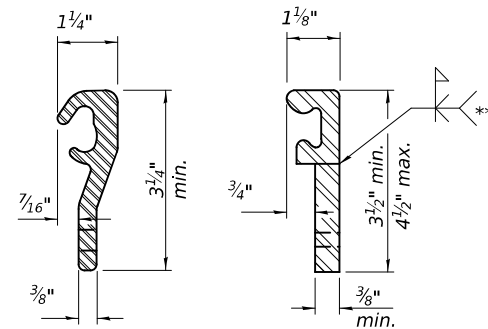


TRIMETRIC VIEW

(Showing embedded plates only)

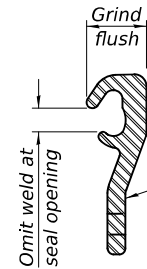


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	74

EJ-SS

5-15-2023

DESIGNED	-	DAVID H. RICHTER
CHECKED	-	RYAN P. NEGANGARD
DRAWN	-	GLENN W. STOVER
CHECKED	-	D.H.R. / R.P.N.

EXAMINED		Mark Shuffler ENGINEER OF BRIDGE DESIGN
PASSED		Jayne F. Shuffler ENGINEER OF BRIDGES AND STRUCTURES

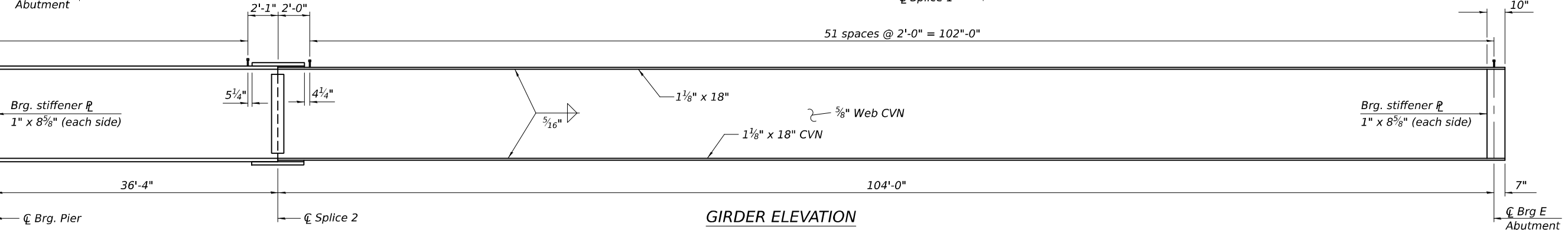
DATE	-	10-10-2024
REVISED	-	
REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL DETAILS
STRUCTURE NO. 074-0088

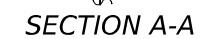
SHEET 16 OF 30 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1532	74-69BR	PIATT	78	54
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				


$$\frac{\vdash A}{\vdash A}$$


**** TOP OF WEB ELEVATION**

*Prior to grinding
**For fabrication use only

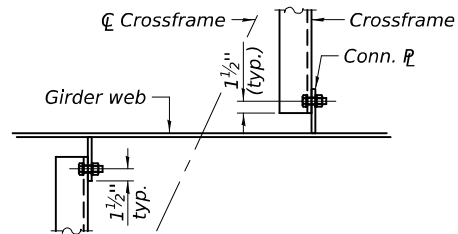


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

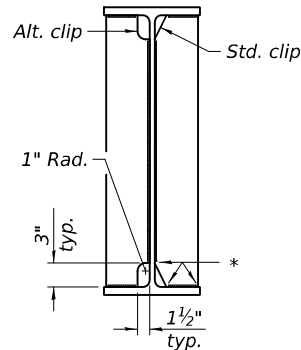
SHEET 17 OF 30 SHEETS

F.A.S. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1532	74-69BR	PIATT	78	55
		CONTRACT NO. 70629		
		ILLINOIS	FED. AID PROJECT	

MODEL: 0740088-70629-018
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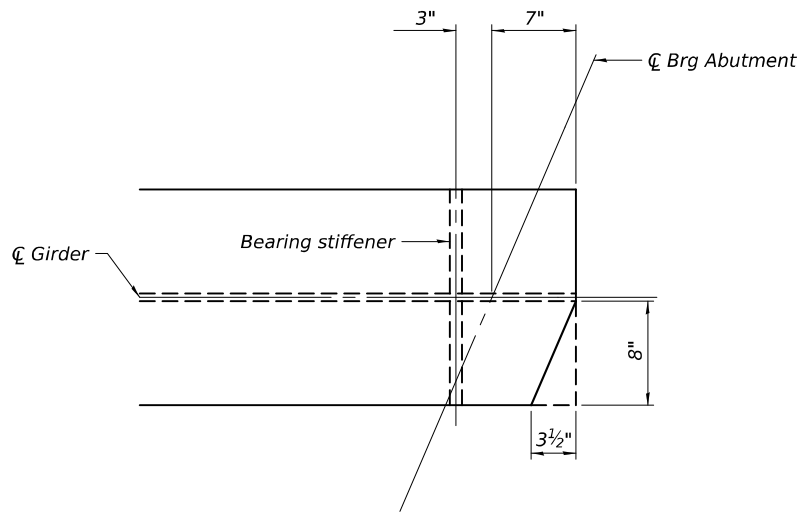


DETAIL A



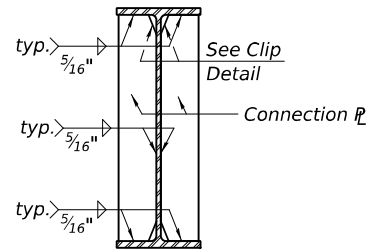
WELD LIMITS AND CLIP DETAILS

* Stop welds 1/4" ($\pm 1/8$ ") from edges as shown.
Typical.

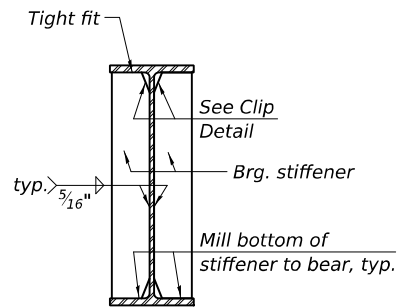


CLIPPING DETAIL

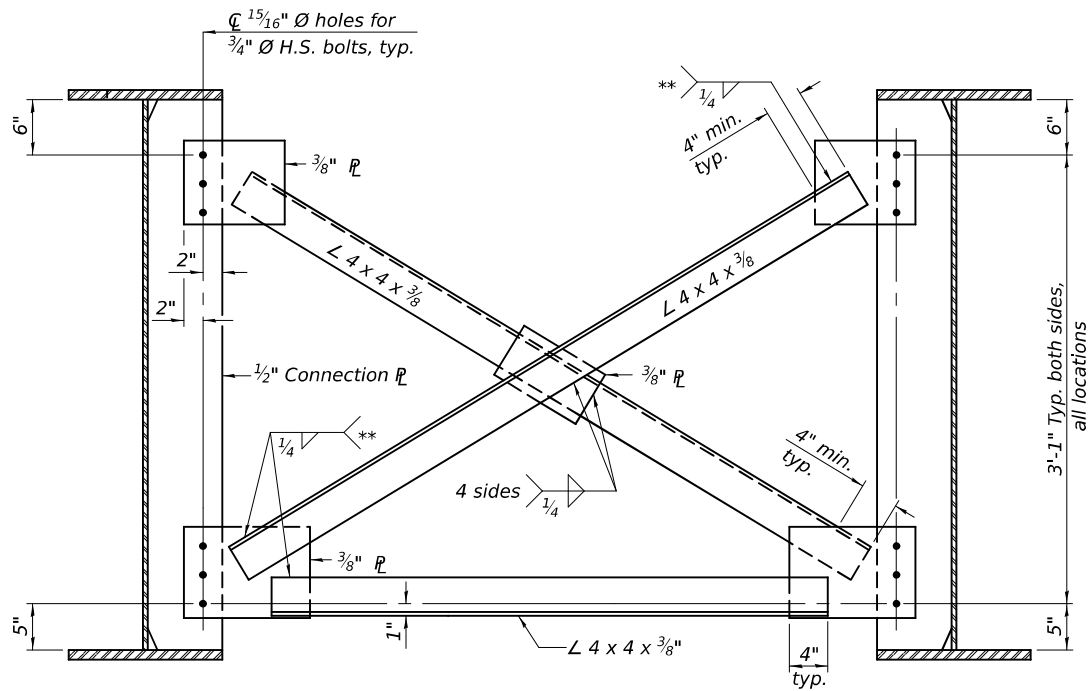
(Top flange of girders at abutments)



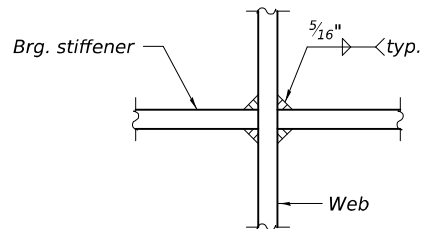
CONNECTION P
DETAIL



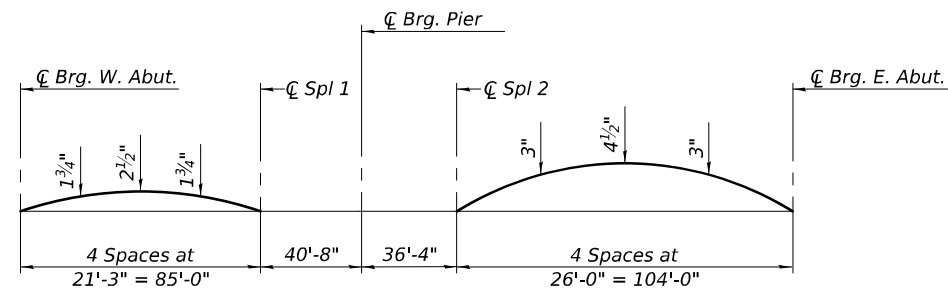
BEARING STIFFENER
DETAIL



INTERIOR CROSS-FRAME CF
(70 Required)



WEB WELD DETAIL



CAMBER DIAGRAM

Notes:
Two hardened washers required for each set of oversized holes.
All cross frames shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames at supports may be temporarily disconnected to install bearing anchor bolts.

** Fillet weld angles along 3 sides on one face of gusset typ,

DESIGNED	-	DAVID H. RICHTER
CHECKED	-	RYAN P. NEGANGARD
DRAWN	-	GLENN W. STOVER
CHECKED	-	D.H.R. / R.P.N.

EXAMINED
PASSED

Mark Shuff
ENGINEER OF BRIDGE DESIGN
Jayne F. Shuff
ENGINEER OF BRIDGES AND STRUCTURES

DATE - 10-10-2024

REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

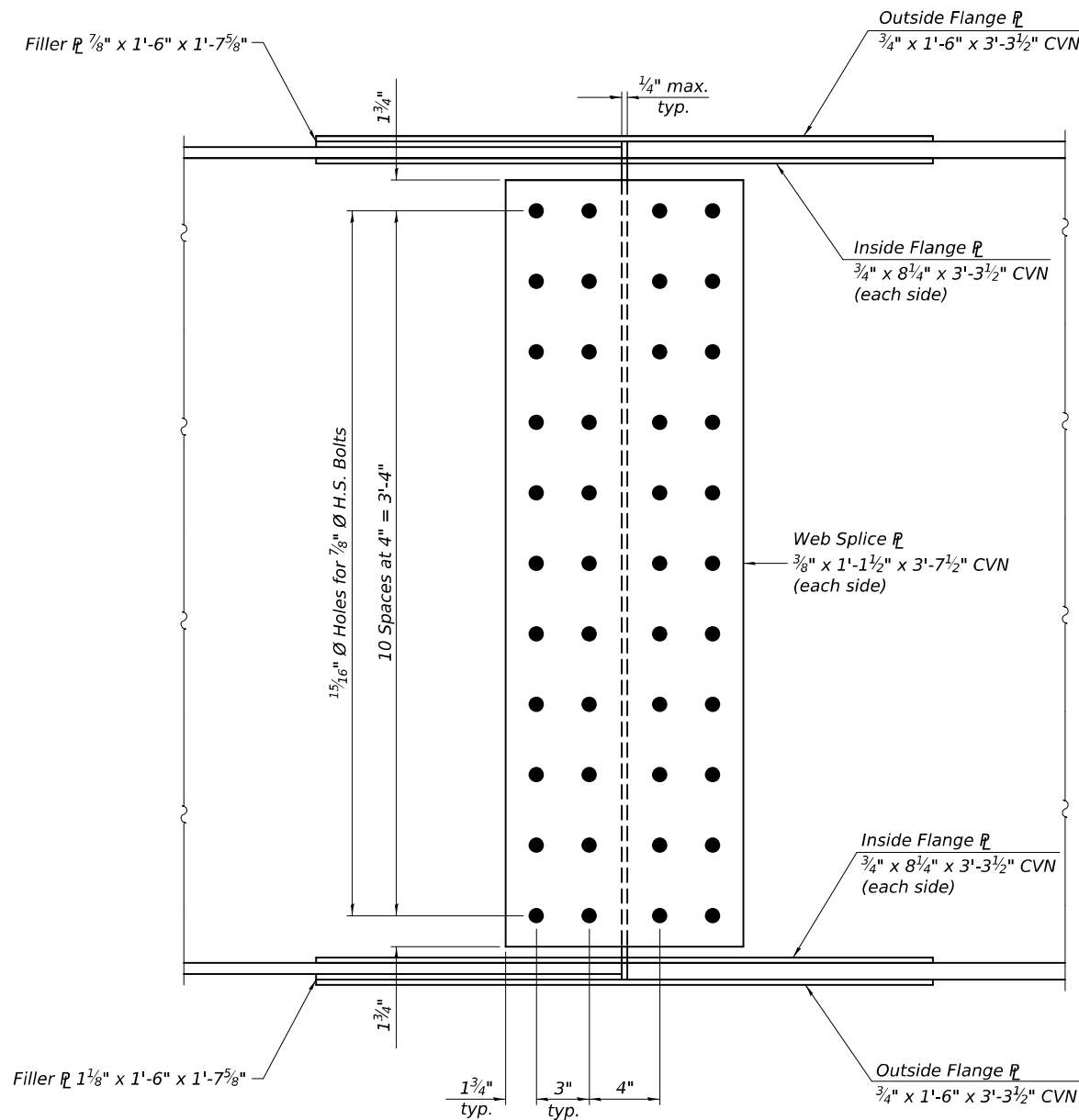
STRUCTURAL STEEL DETAILS
STRUCTURE NO. 074-0088

SHEET 18 OF 30 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1532	74-69BR	PIATT	78	56
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

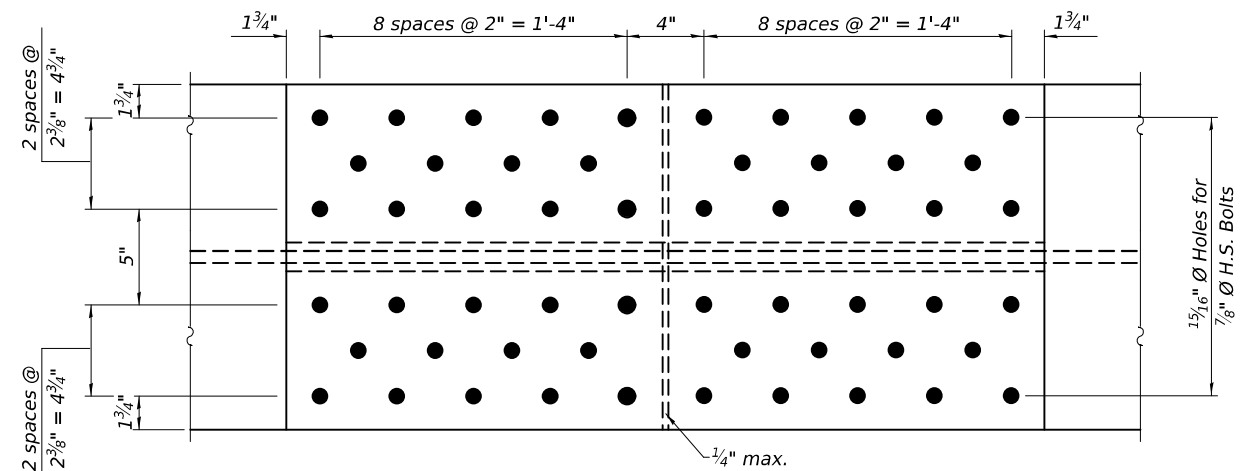
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MODEL: 0740088-70629-019
FILE NAME: pw:///lido-epw/bentley.com:FWIDOT/Documents/IDOT O ces/Bureau of Bridges and Structures/OBM Projects/0740088/CADDData/Bridge/0740088-70629-Design.dgn



ELEVATION

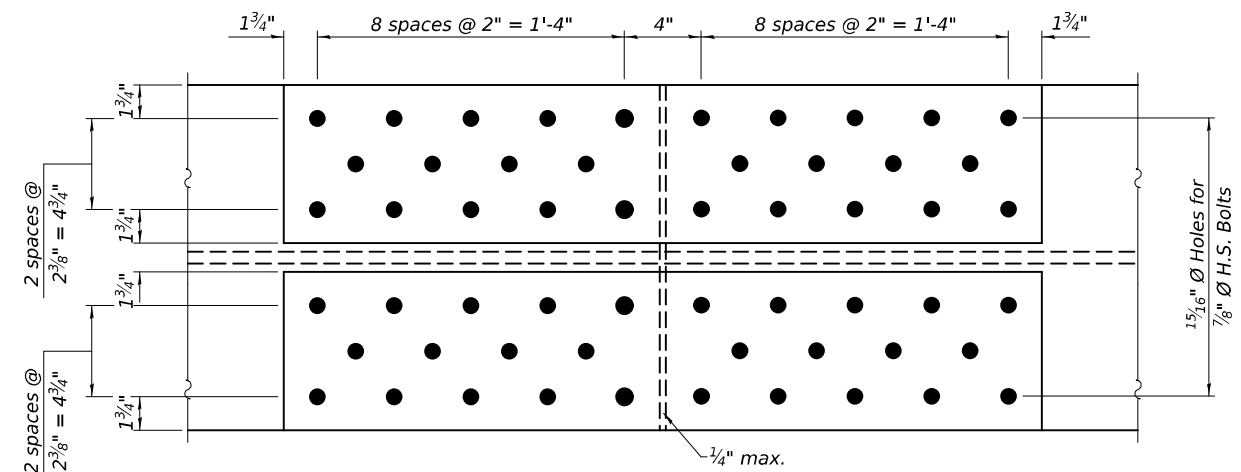
Note:
Load carrying components designated "CVN" shall conform to the Charpy-V-Notch
Impact Energy Requirement, Zone 2.
All splice plates, except fill plates, shall be AASHTO M270, Grade 50



FLANGE SPLICE (OUTSIDE PLATE)

SPLCES 1 and 2

3/4" x 18" x 3'-3 1/2" CVN



FLANGE SPLICE (INSIDE PLATE)

SPLCES 1 and 2

2-(3/4" x 8 1/4" x 3'-3 1/2") CVN

SPLICE DETAILS

(12 Required)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
STRUCTURE NO. 074-0088

SHEET 19 OF 30 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1532	74-69BR	PIATT	78	57
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

MODEL: 0740088-70629-020
FILE NAME: pw://lido-pw/bentley.com:FWIDOT/Documents/IDOT O ces/Bureau of Bridges and Structures/OBM Projects/0740088/CADDData/Bridge/0740088-70629-Design.dgn

INTERIOR GIRDER MOMENT TABLE				
		0.4 Sp. 1	Pier	0.6 Sp. 2
I _s	(in ⁴)	30199	53726	30199
I _c (n)	(in ⁴)	63453	99475	63453
I _c (3n)	(in ⁴)	47126	74844	47126
I _c (cr)	(in ⁴)	—	59491	—
S _s	(in ³)	1202	2137	1202
S _c (n)	(in ³)	1558	2583	1558
S _c (3n)	(in ³)	1424	2389	1424
S _c (cr)	(in ³)	—	2217	—
S _x	(in ³)	1476	2188	1432
DC1	(k/')	0.916	1.056	0.916
M _{DC1}	('k)	775.6	2516.4	1195.1
DC2	(k/')	0.175	0.175	0.175
M _{DC2}	('k)	152.3	448.4	234.2
DW	(k/')	0.292	0.292	0.292
M _{DW}	('k)	254.1	748.2	390.8
LLDF		0.482	0.474	0.467
M _ℓ + I _{IM}	('k)	1470.8	1889.9	1601.8
f _ℓ (Strength I)	(ksi)	0	0	0
M _u + 1/3 f _ℓ S _x	('k)	4114.9	8135.6	5176.0
Φ _f M _n	('k)	7809.4	—	7757.2
f _s DC1	(ksi)	7.7	14.1	11.9
f _s DC2	(ksi)	1.3	2.4	2.0
f _s DW	(ksi)	2.1	4.0	3.3
f _s (ℓ+IM)	(ksi)	11.3	10.2	12.3
f _ℓ (Service II)	(ksi)	0	0	0
f _s + f _ℓ /2 (Service II)	(ksi)	25.9	33.9	33.2
Service II Resistance	(ksi)	47.5	47.5	47.5
f _s + f _ℓ /3 (Strength I)	(ksi)	—	44.7	—
Φ _f F _n	(ksi)	—	50	—
V _r	(k)	33.4	30.2	32.6

GIRDER REACTION TABLE			
	W. Abut.	Pier	E. Abut.
LLDF	0.658	0.658	0.658
OCF	1.084	—	1.088
R _{DC1}	(k) 38.5	169	47
R _{DC2}	(k) 7.4	30	9.1
R _{DW}	(k) 12.4	50.1	15.2
R _ℓ	(k) 71.4	141.8	74.2
R _{IM}	(k) 15.3	25.4	15.5
R _{Total} (Strength I)(Impact)	(k) 227.7	616.5	249.9
R _{Total} (Strength I)(No Impact)	(k) 200.9	572.1	222.8

- I_s , S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).
- I_c (n), S_c (n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.⁴ and in.³).
- I_c (3n), S_c (3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.⁴ and in.³).
- I_c (cr), S_c (cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and in.³).
- S_x : Section modulus about the major axis of a section to the controlling flange, tension or compression, taken as yield moment with respect to the controlling flange over the yield strength of the controlling flange (in.³).
- DC1: Un-factored non-composite dead load (kips/ft.).
- M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
- DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- M_{DW} : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- LLDF: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.
- M_ℓ + I_{IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- M_u : Strength I load combination of factored design moments (kip-ft.).
1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_ℓ + I_{IM}
- f_ℓ : Factored calculated flange lateral bending stress as calculated using Article 6.10.1.6 and as further simplified by IDOT provisions (ksi).
- Φ_f M_n : Factored nominal flexural resistance of the section determined as specified in Article 6.10.7.1 or A6 as applicable (kip-ft.).

- f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
M_{DC1} / S_s
- f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
M_{DC2} / S_c (3n) or M_{DC2} / S_c (cr) as applicable.
- f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
M_{DW} / S_c (3n) or M_{DW} / S_c (cr) as applicable.
- f_s (ℓ + IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
M_ℓ + I_{IM} / S_c (n) or M_ℓ + I_{IM} / S_c (cr) as applicable.
- f_s + f_ℓ / 2 (Service II): Sum of stresses as computed below (ksi).
f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s (ℓ + IM) + f_ℓ / 2
- Service II Resistance: Composite (0.95R_hF_{yℓ}) or noncomposite (0.80R_hF_{yℓ}) stress capacity according to Article 6.10.4.2 (ksi).
- f_s + f_ℓ / 3 (Strength I): Sum of stresses as computed below on non-compact sections (ksi).
1.25 (f_s DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s (ℓ + IM) + f_ℓ / 3
- Φ_f F_n : Factored nominal flexural resistance of the section as specified in Article 6.10.7.2 or 6.10.8 as applicable (ksi).
- V_r : Maximum factored shear range in span computed according to Article 6.10.10.
- OCF: Obtuse Correction Factor according to Article 4.6.2.2.3c or as further simplified by IDOT provisions.
- R_{DC1} : Un-factored reaction due to non-composite dead load (kip).
- R_{DC2} : Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).
- R_{DW} : Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).
- R_ℓ : Un-factored live load reaction (kip).
- R_{IM} : Un-factored dynamic load allowance (impact) (kip).
- R_{Total} (Strength I)(Impact): Strength I load combination of factored design reactions (kip).
1.25 (R_{DC1} + R_{DC2}) + 1.5R_{DW} + 1.75 (R_ℓ + R_{IM})
- R_{Total} (Strength I)(No Impact): Strength I load combination of factored design reactions, not including dynamic load allowance (Impact) (kip).
1.25 (R_{DC1} + R_{DC2}) + 1.5R_{DW} + 1.75 (R_ℓ)

DESIGNED -	DAVID H. RICHTER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / R.P.N.

EXAMINED	
PASSED	

DATE -	10-10-2024
REVISED -	—
REVISED -	—

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

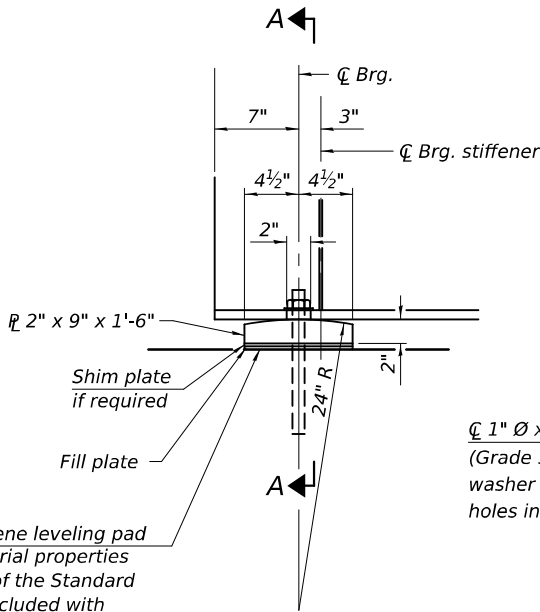
STRUCTURAL STEEL DETAILS
STRUCTURE NO. 074-0088

SHEET 20 OF 30 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1532	74-69BR	PIATT	78	58
CONTRACT NO. 70629				
ILLINOIS		FED. AID PROJECT		

MODEL: 0740088-70629-021
FILE NAME: pw:///lido-pw/bentley.com:FWIDOT/Documents/IDOT O ces/Bureau of Bridges and Structures/OBM Projects/0740088/CADData/Bridge/0740088-70629-Design.dgn

$\frac{1}{8}$ " Elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

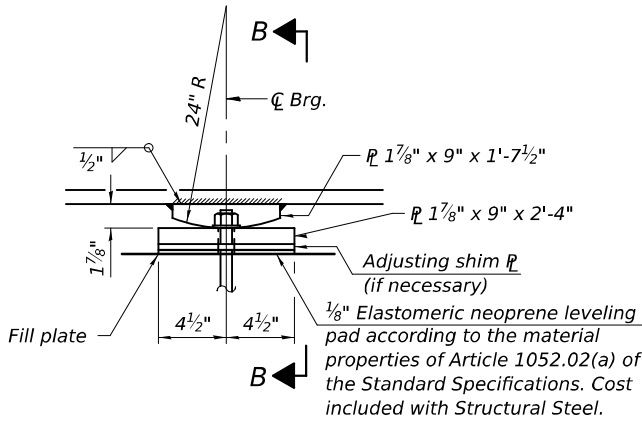


ELEVATION AT ABUTMENT

FIXED BEARING AT ABUTMENT
(12 Required)

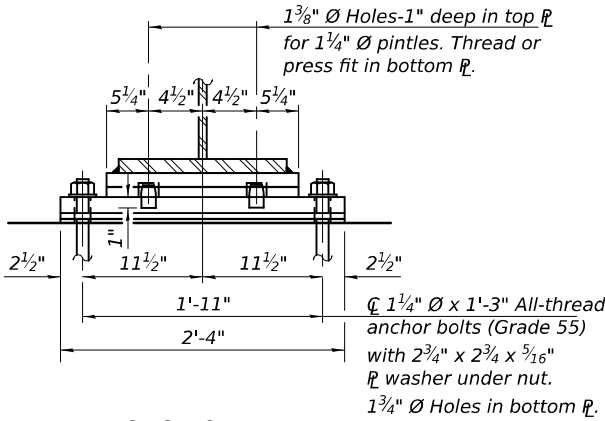
ϕ 1" ϕ x 1'-0" All-thread anchor bolts (Grade 55) with $2\frac{1}{4}$ " x $2\frac{1}{4}$ " x $\frac{5}{16}$ " ϕ washer under nuts. $1\frac{3}{8}$ " x 2" slotted holes in flange. $1\frac{1}{2}$ " ϕ Holes in bearing plate.

SECTION A-A

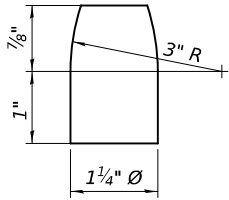


ELEVATION AT PIER

FIXED BEARING AT PIER
(6 Required)



SECTION B-B



PINTLE

FILL PLATE

Location	Girder	Plate Size (in.)
West Abut	4	$\frac{1}{8}$ "
	3	$\frac{1}{4}$ "
Pier	4	$\frac{5}{8}$ "
	4	$\frac{3}{4}$ "
East Abut	5	$\frac{1}{2}$ "

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	24
Anchor Bolts, 1 1/4"	Each	12

Notes:
Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
Two $\frac{1}{8}$ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
All bearing plates, shim plates, fill plates, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.
The structural steel plates and pintles of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.

DESIGNED -	DAVID H. RICHTER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / R.P.N.

EXAMINED	
PASSED	

DATE -	10-10-2024
REVISED -	___
REVISED -	___

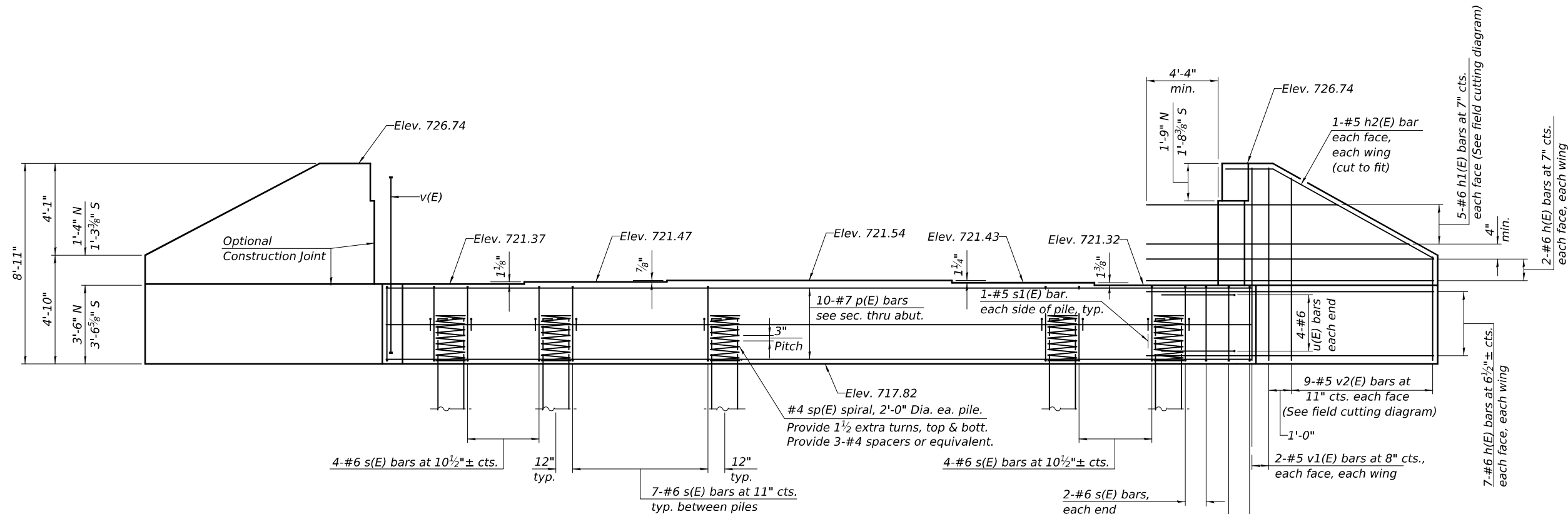
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
STRUCTURE NO. 074-0088

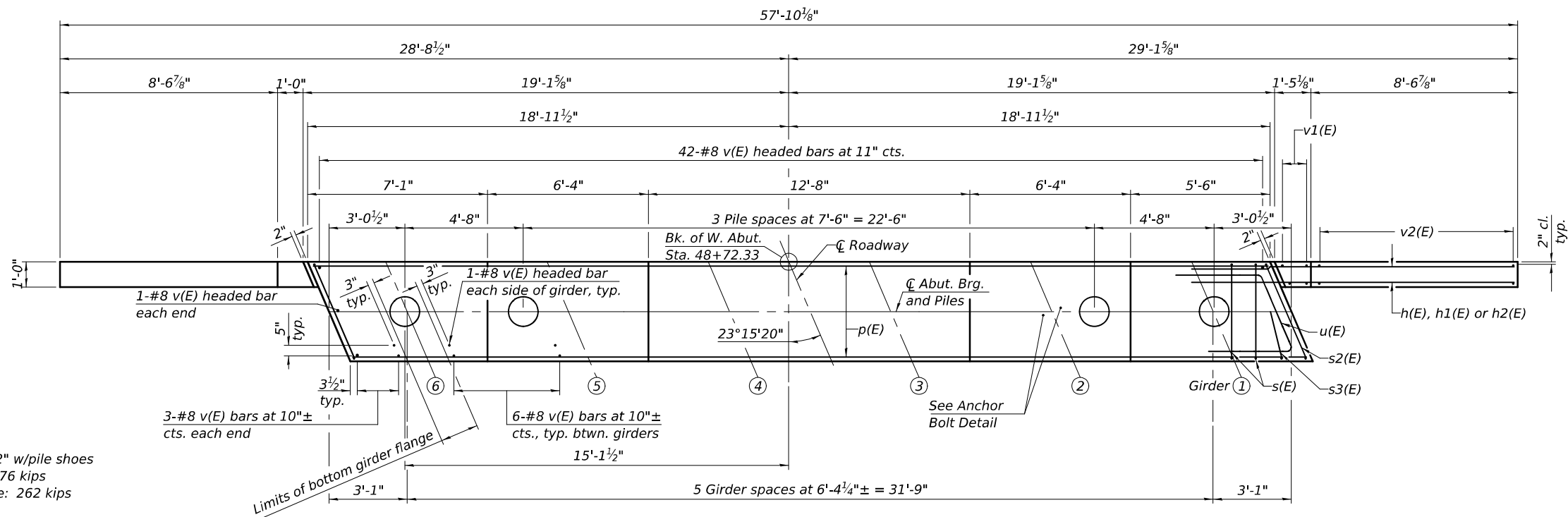
SHEET 21 OF 30 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1532	74-69BR	PIATT	78	59
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

MODEL: 0740088-70629-022
FILE NAME: pw:\jldel-pw\benley.com\FWIDOT\Documents\IDOT O ces\Bureau of Bridges and Structures\OBM Projects\0740088\Bridge\0740088-70629-Design.dgn



ELEVATION
(Looking West)



PILE DATA

Type: Metal Shell 14" x 0.312" w/pile shoes
Nominal Required Bearing: 476 kips
Factored Resistance Available: 262 kips
Est. Length: 49'
No. Production Piles: 6
No. Test Piles: 0

PLAN

DESIGNED -	DAVID H. RICHTER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / R.P.N.

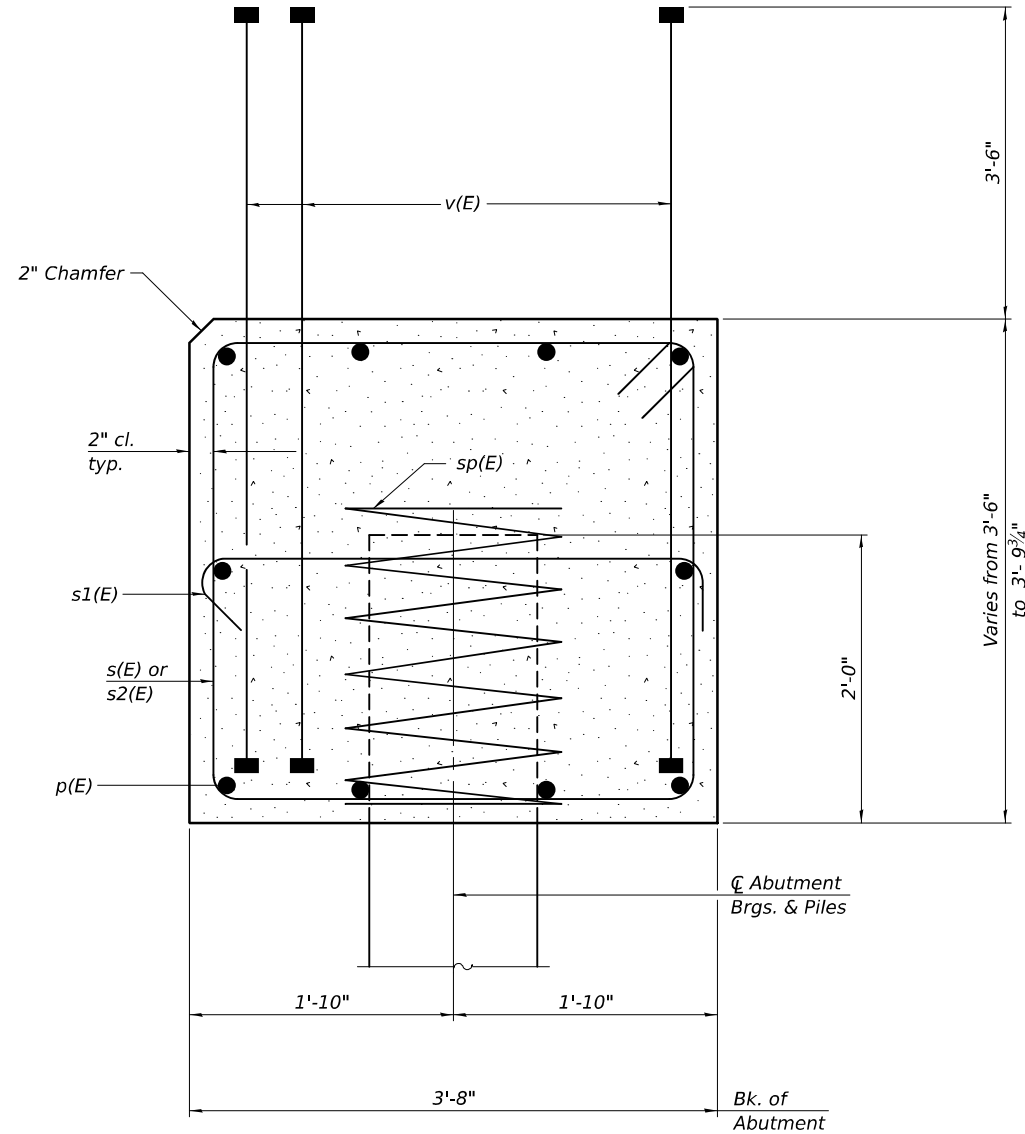
EXAMINED	<i>Mark Shuff</i>	DATE -	10-10-2024
PASSED	<i>Jayne F. [Signature]</i>	REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

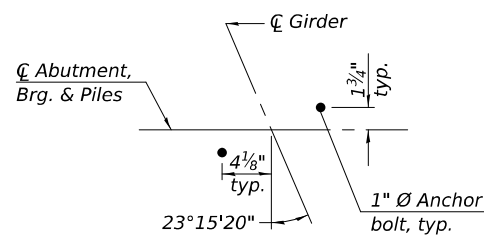
WEST ABUTMENT
STRUCTURE NO. 074-0088

SHEET 22 OF 30 SHEETS

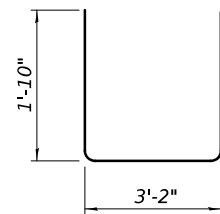
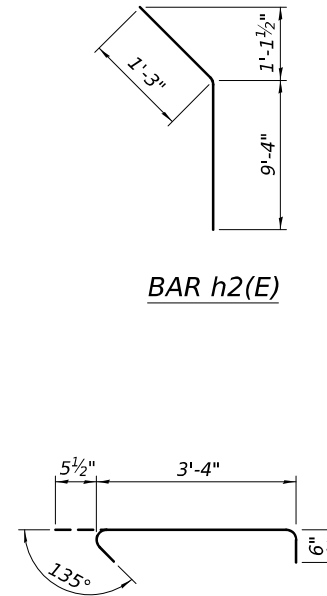
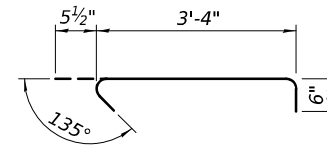
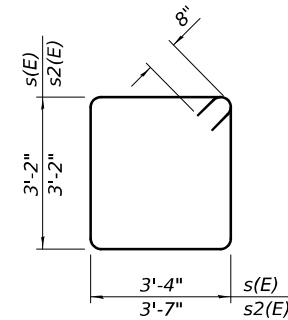
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1532	74-69BR	PIATT	78	60
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				



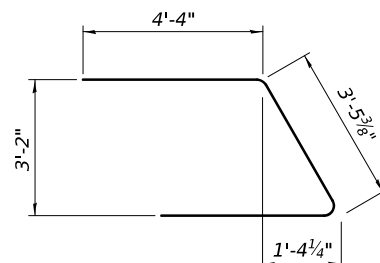
SEC. THRU ABUT.
Dimensions at Rt $\angle$'s to abutment



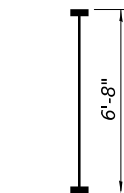
ANCHOR BOLT DETAIL


$$\underline{BAR\ s3(E)}$$

$$\underline{BAR\ h2(E)}$$

$$\underline{BAR\ s1(E)}$$


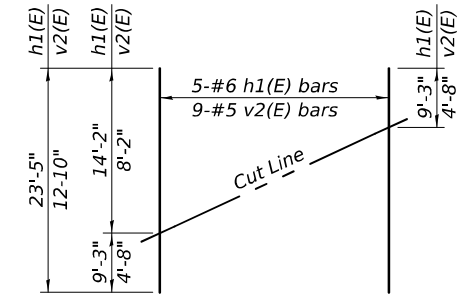
BAR $s(E)$ & $s_2(E)$



BAR $u(E)$



BAR v(E)
(Headed. 368-#8
Bar Terminators)



FIELD CUTTING DIAGRAM

Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite wing.

WEST ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
<i>h(E)</i>	36	#6	14'-4"	
<i>h1(E)</i>	10	#6	23'-5"	
<i>h2(E)</i>	4	#5	10'-7"	
<i>p(E)</i>	10	#7	37'-7"	
<i>s(E)</i>	33	#6	14'-4"	
<i>s1(E)</i>	12	#5	4'-4"	
<i>s2(E)</i>	2	#6	14'-10"	
<i>s3(E)</i>	2	#6	6'-10"	
<i>sp(E)</i>	6	#4	2'-0"	
<i>u(E)</i>	8	#6	12'-2"	
<i>v(E)</i>	92	#8	6'-8"	
<i>v1(E)</i>	8	#5	8'-7"	
<i>v2(E)</i>	18	#5	12'-10"	
<i>Structure Excavation</i>			<i>Cu. Yd.</i>	<i>132</i>
<i>Concrete Structures</i>			<i>Cu. Yd.</i>	<i>23.8</i>
<i>Reinforcement Bars, Epoxy Coated</i>			<i>Pound</i>	<i>5140</i>
<i>Furnishing Metal Shell Piles 14" x 0.312"</i>			<i>Foot</i>	<i>294</i>
<i>Driving Piles</i>			<i>Foot</i>	<i>294</i>
<i>Pile Shoes</i>			<i>Each</i>	<i>6</i>

* Length is height of spiral.

EAST ABUTMENT
BILL OF MATERIAL

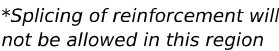
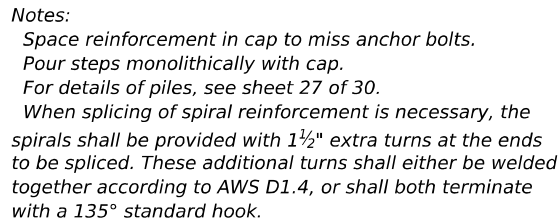
Bar	No.	Size	Length	Shape
h(E)	36	#6	14'-4"	————
h1(E)	10	#6	23'-5"	————
h2(E)	4	#5	10'-7"	———— ————
p(E)	10	#7	37'-7"	————
s(E)	33	#6	14'-4"	———— ————
s1(E)	12	#5	4'-4"	———— ————
s2(E)	2	#6	14'-10"	———— ————
s3(E)	2	#6	6'-10"	———— ————
sp(E)	6	#4	2'-0"	———— ————
u(E)	8	#6	12'-2"	———— ————
v(E)	92	#8	6'-8"	———— ————
v1(E)	8	#5	8'-7"	———— ————
v2(E)	18	#5	12'-10"	———— ————
Structure Excavation			Cu. Yd.	134
Concrete Structures			Cu. Yd.	24.4
Reinforcement Bars, Epoxy Coated			Pound	5140
Furnishing Metal Shell Piles 14" x 0.312"			Foot	330
Driving Piles			Foot	330
Test Pile Metal Shells			Each	1
Pile Shoes			Each	6

* Length is height of spiral.

Notes:
 Pour steps monolithically with cap.
 Bar terminators, paid for seperately. See
 Total Bill of Material.
 For details of piles see sheet 27 of 30.

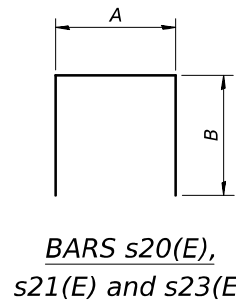
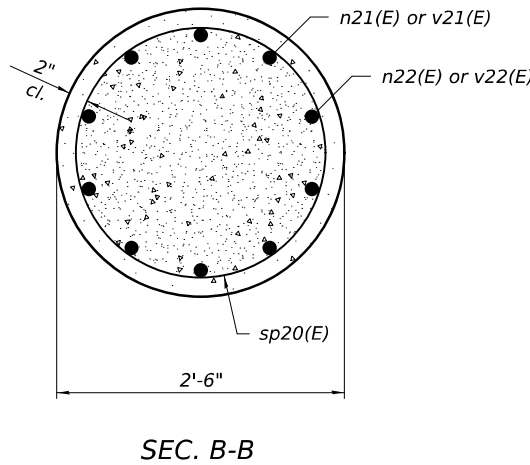
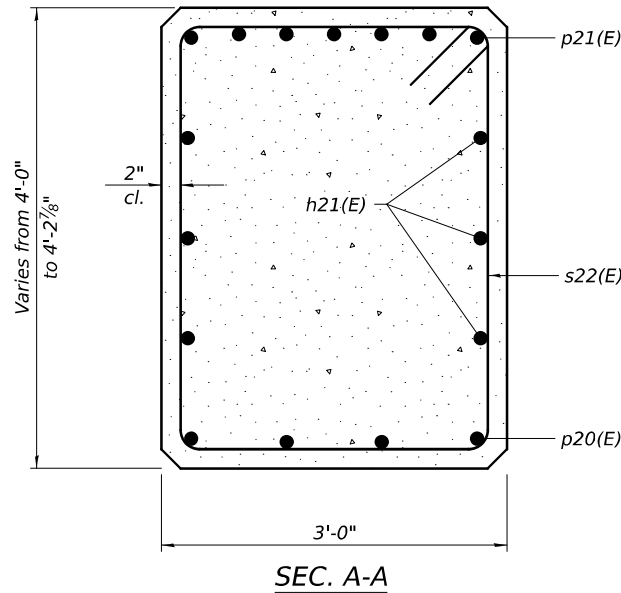
DESIGNED - DAVID H. RICHTER	EXAMINED  ENGINEER OF BRIDGE DESIGN PASSED  ENGINEER OF BRIDGES AND STRUCTURES	DATE - 10-10-2024	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ABUTMENT DETAILS STRUCTURE NO. 074-0088	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - RYAN P. NEGANGARD		REVISED - _____			1532	74-69BR	PIATT	78	62
DRAWN - GLENN W. STOVER		REVISED - _____			CONTRACT NO. 70629				
CHECKED - D.H.R. / R.P.N.					SHEET 24 OF 30 SHEETS				

Type: Metal shell 14" x 0.312" w/pile shoes
Nominal Required Bearing: 505 kips
Factored Resistance Available: 278 kips
Est. Length: 38'
No. Production Piles: 13
No. Test Piles: 1



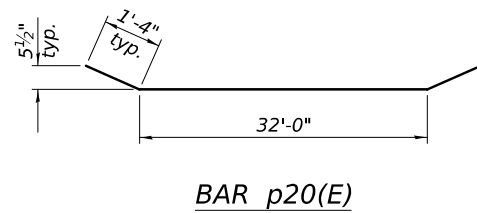
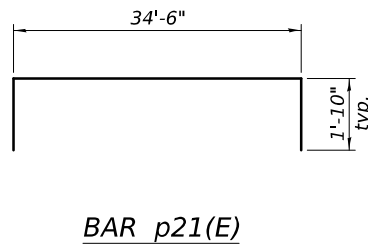
ILLINOIS	FED. AID PROJEC
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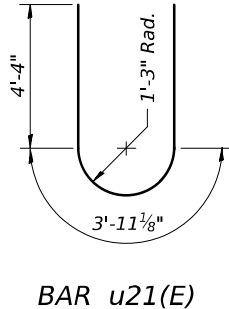
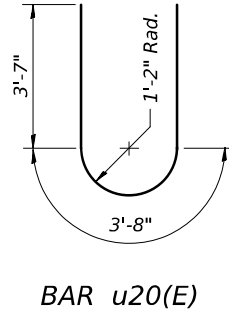
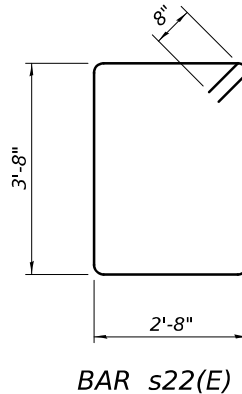
A & B DIMENSIONS

Bar	A	B
s20(E)	2'-6"	6'-3"
s21(E)	2'-6"	6'-2"
s23(E)	2'-8"	3'-2"



C, D & E DIMENSIONS

Bar	C	D	E
n20(E)	6"	8"	6'-3"
n21(E)	8"	11"	5'-1"
n22(E)	8"	11"	7'-1"
v21(E)	8"	11"	7'-1"
v22(E)	8"	11"	5'-1"



BARS n20(E), n21(E), n22(E)
v21(E), and v22(E)

PIER BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h20(E)	16	#5	26'-8"	—
h21(E)	6	#5	34'-6"	—
n20(E)	6	#6	6'-11"	U
n21(E)	20	#8	6'-0"	U
n21(E)	20	#8	8'-0"	U
p20(E)	4	#8	34'-8"	—
p21(E)	7	#10	38'-2"	—
s20(E)	47	#6	15'-0"	U
s21(E)	47	#6	14'-10"	U
s22(E)	64	#6	14'-0"	U
s23(E)	16	#6	9'-0"	U
* sp20(E)	4	#5	11'-4"	W
t20(E)	52	#7	7'-8"	—
t21(E)	34	#5	7'-8"	—
u20(E)	14	#5	10'-10"	U
u21(E)	8	#6	12'-8"	U
v20(E)	6	#6	6'-2"	—
v21(E)	20	#8	8'-0"	U
v22(E)	20	#8	6'-0"	U
w20(E)	19	#5	32'-8"	—
Structure Excavation			Cu. Yd.	66
Concrete Structures			Cu. Yd.	68.4
Reinforcement Bars, Epoxy Coated			Pound	10540
Furnishing Metal Shell Piles 14" x 0.312"			Foot	494
Driving Piles			Foot	494
Test Pile Metal Shells			Each	1
Pile Shoes			Each	14

* Length is height of spiral.

DESIGNED -	DAVID H. RICHTER
CHECKED -	RYAN P. NEGANGARD
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / R.P.N.

EXAMINED	<i>Mark Shuffler</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Jayne F. Shuffler</i> ENGINEER OF BRIDGES AND STRUCTURES

DATE -	10-10-2024
REVISED -	—
REVISED -	—

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER DETAILS
STRUCTURE NO. 074-0088

SHEET 26 OF 30 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1532	74-69BR	PIATT	78	64
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				

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BSD-1

5-15-2023

DESIGNED	-	DAVID H. RICHTER
CHECKED	-	RYAN P. NEGANGARD
DRAWN	-	GLENN W. STOVER
CHECKED	-	D.H.R. / R.P.N.

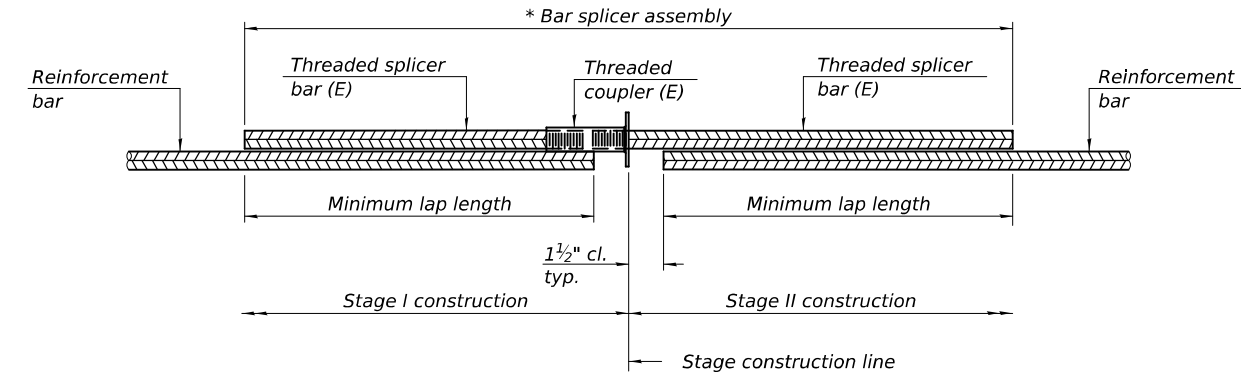
EXAMINED		DATE	-	10-10-2024
PASSED		REVISED	-	_____
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED	-	_____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 074-0088

SHEET 28 OF 30 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1532	74-698R	PIATT	78	66
CONTRACT NO. 70629				
		ILLINOIS	FED. AID PROJECT	



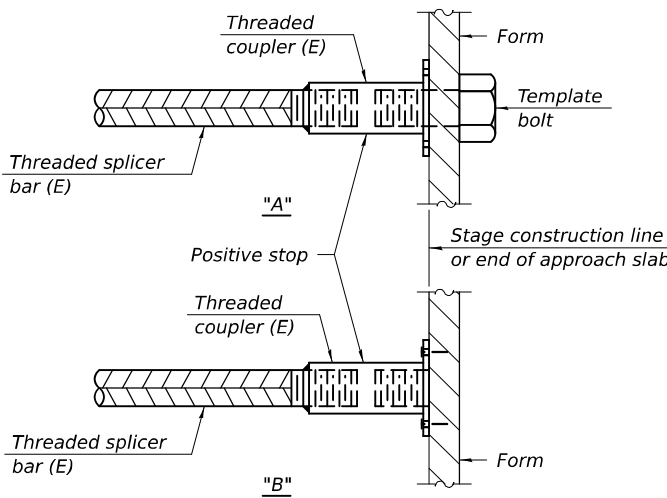
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1½" + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length

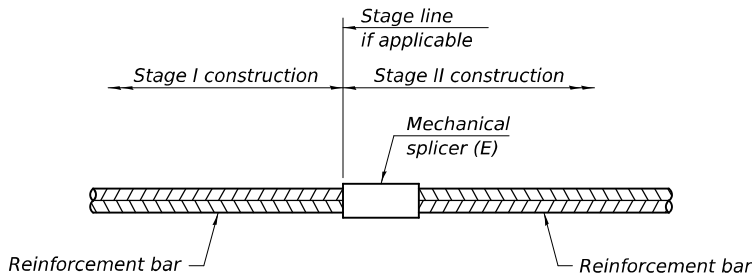


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
Pier	#8	40

Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

SOIL BORING 074-0026.GPJ R3D5 GINT DATA TEMPLATE.GDT 3/11/24

SOIL BORING 074-0026.GPJ R3D5 GINT DATA TEMPLATE_GDT 3/11/24

10/10/2024 2:21:52 PM

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SOIL BORING 074-0026.GPJ R3D5 GINT DATA TEMPLATE.GDT 3/11/24

DESIGNED - DAVID H. RICHTER	EXAMINED 	DATE - 10-10-2024	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS STRUCTURE NO. 074-0088					F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - RYAN P. NEGANGARD	ENGINEER OF BRIDGE DESIGN								1532	74-69BR	PIATT	78	68
DRAWN - GLENN W. STOVER	PASSED 	REVISED - _____		SHEET 30 OF 30 SHEETS					CONTRACT NO. 70629				
CHECKED - D.H.R. / R.P.N.	ENGINEER OF BRIDGES AND STRUCTURES	REVISED - _____											

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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CONSULTING ENGINEERS / LAND SURVEYORS
1970 WEST LAFAYETTE AVE.
JACKSONVILLE, IL 60059
PHONE: 217-245-1146 FAX: 217-245-1149
IL DESIGN FIRM REGISTRATION NO. 194-000852

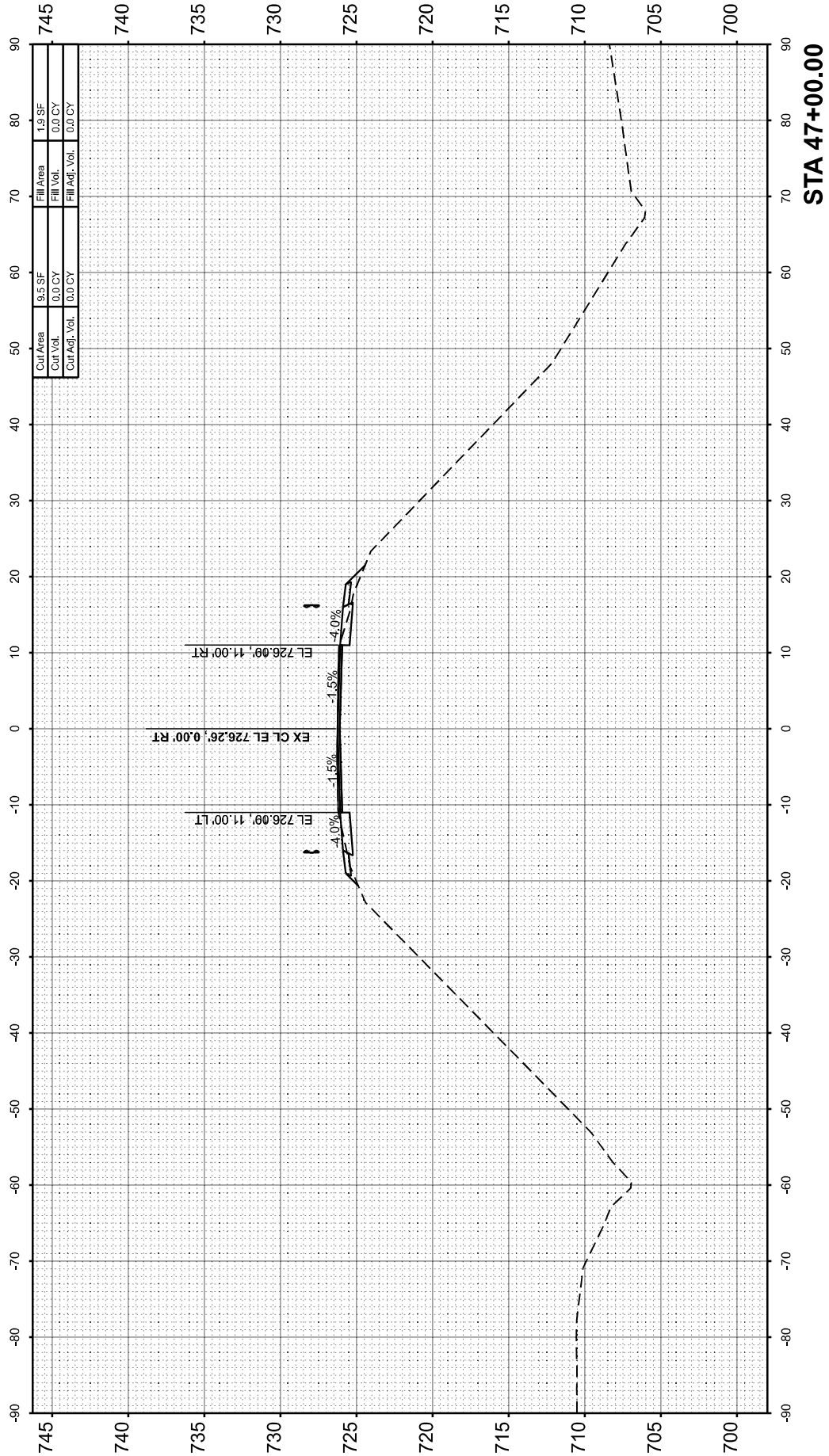
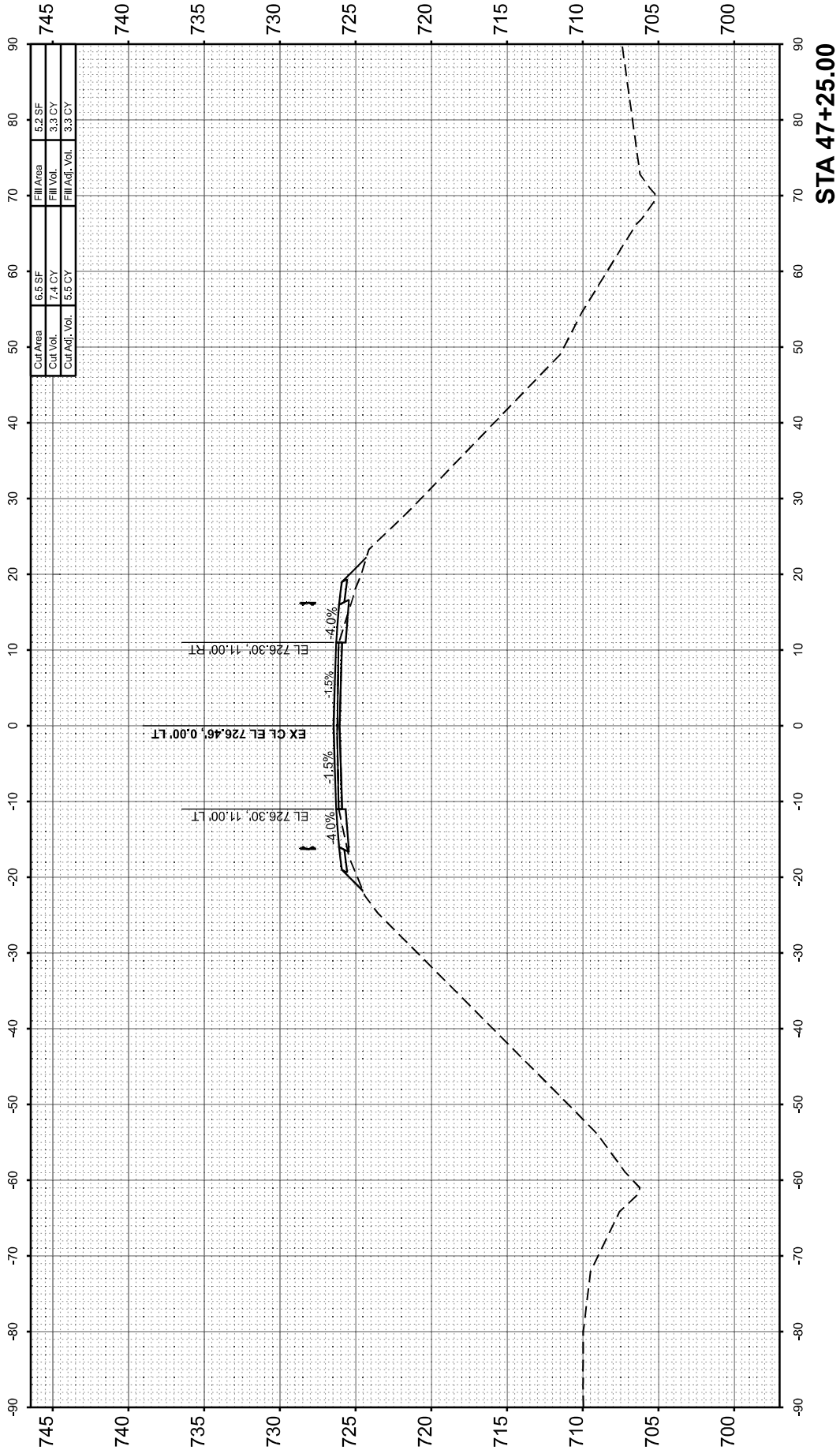
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PLOT DATE	= 8/2/2024	DATE -	AUGUST 2, 2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
WHITE HEATH ROAD (OLD 47)

SCALE: 1"=10'
SHEET OF 10 SHEETS
STA. 47+00.00 TO STA. 47+25.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	69
CONTRACT NO. 70629				
ILLINOIS FED. AID PROJECT				



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	PLOTTED _____		
NOTE BOOK	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

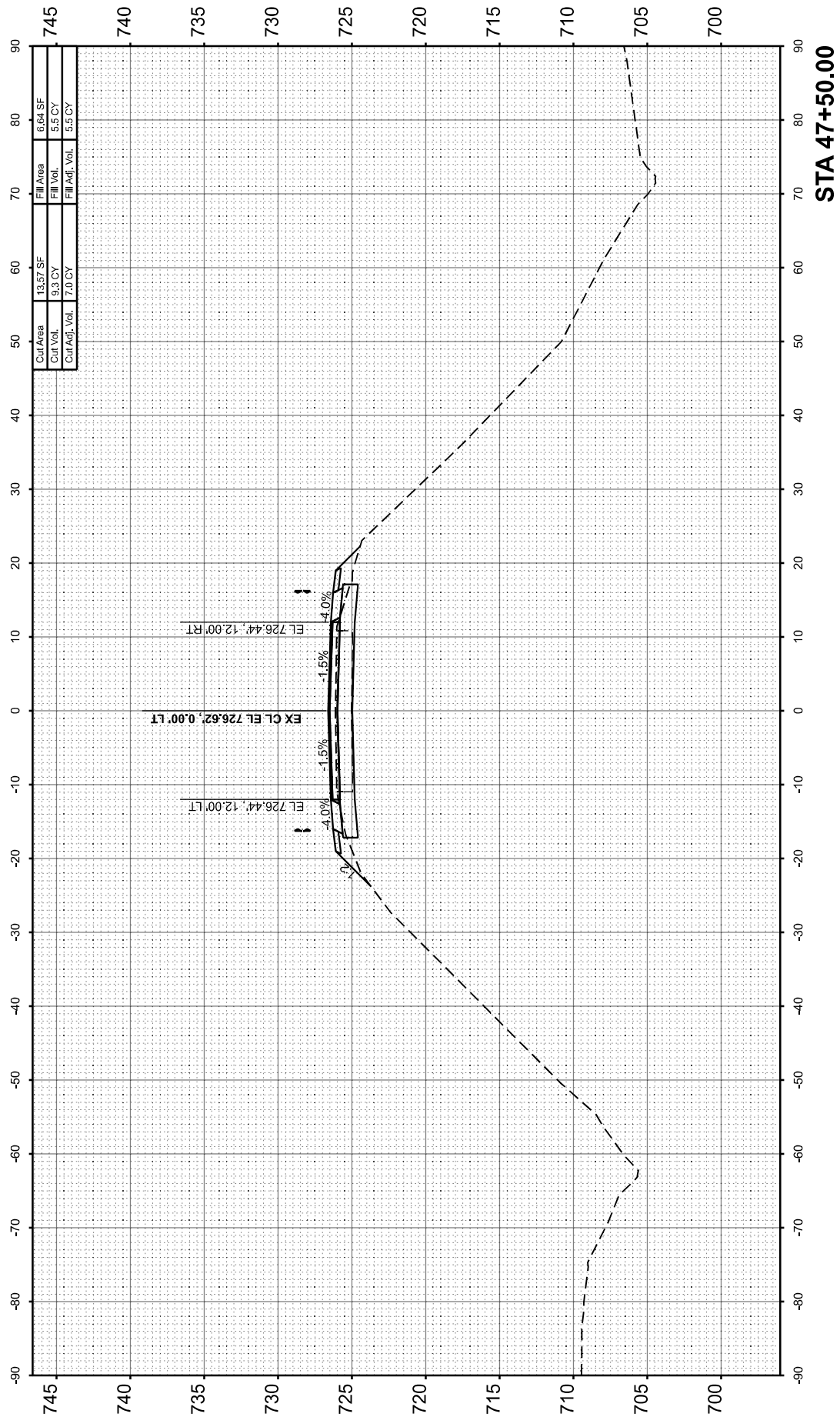
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	70
		CONTRACT NO. 70629		
ILLINOIS		FED. AID PROJECT		



FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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CONSULTING ENGINEERS / LAND SURVEYORS
1970 WEST LAFAYETTE AVE.
JACKSONVILLE, IL 62650
PHONE: 217-245-1146 FAX: 217-245-1149
IL DESIGN FIRM REGISTRATION NO. 184-00082

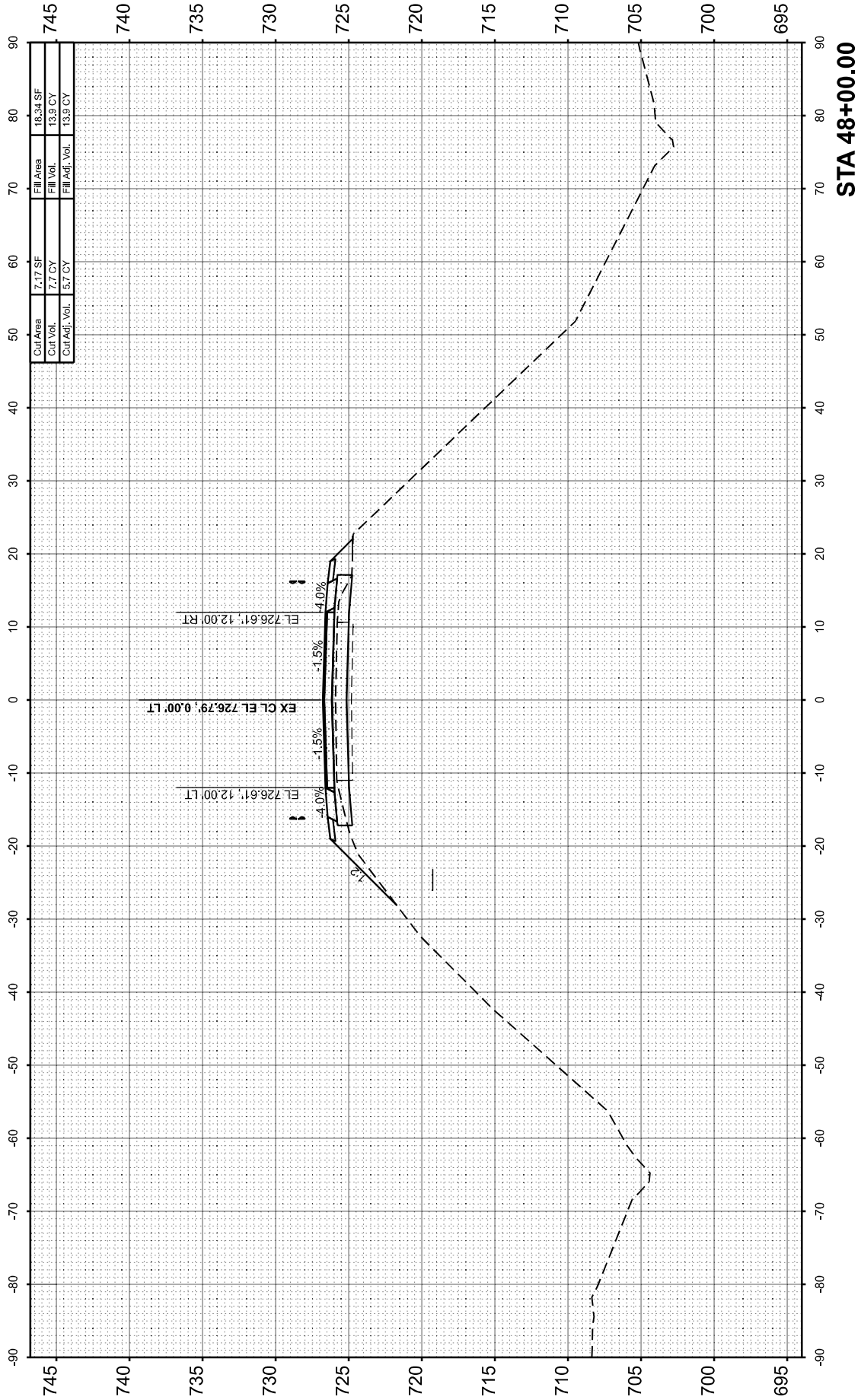
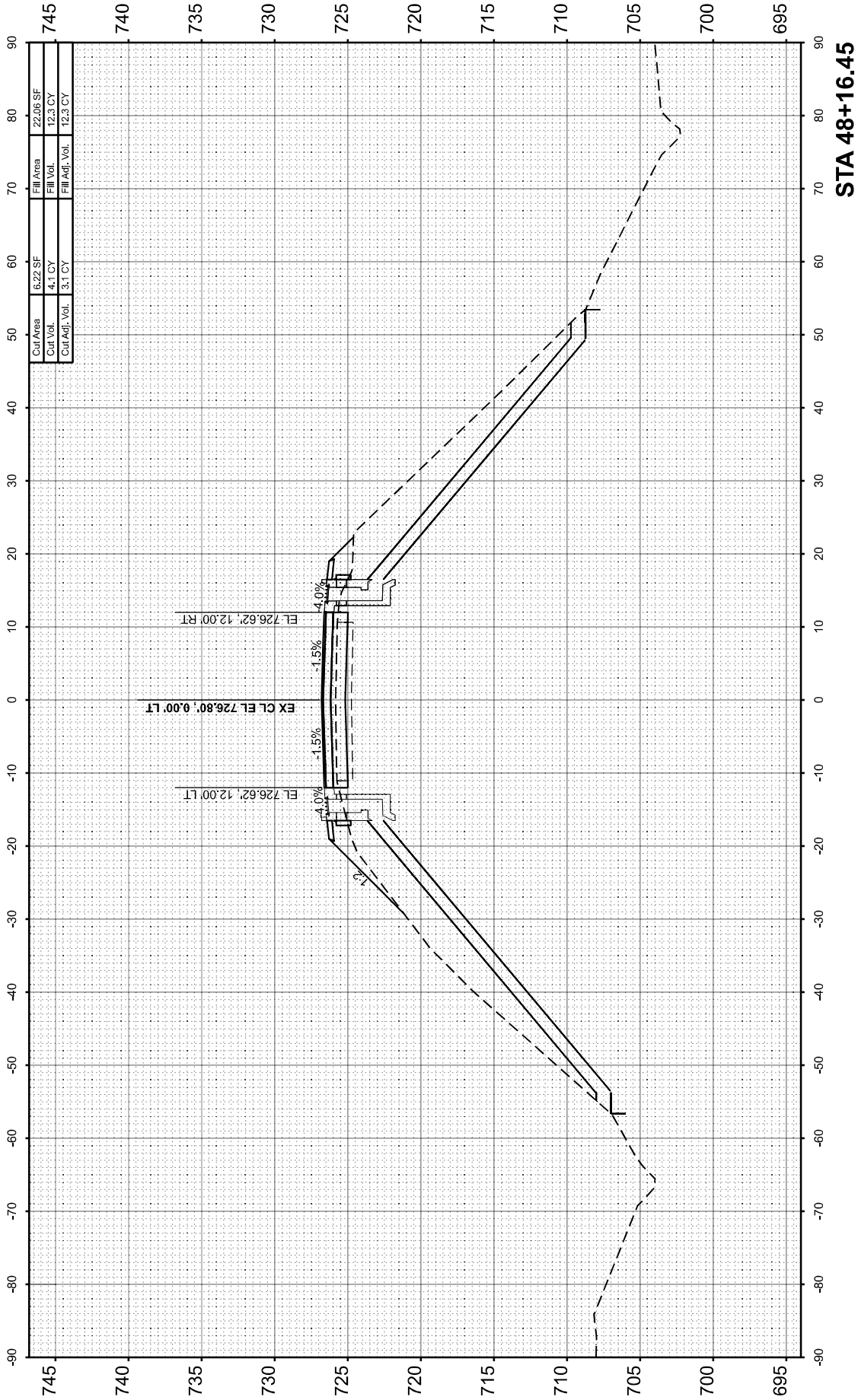
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
WHITE HEATH ROAD (OLD 47)

SCALE: 1"=10' SHEET OF 10 SHEETS STA. 48+00.00 TO STA. 48+16.45

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	71
CONTRACT NO. 70629				
		ILLINOIS	FED. AID PROJECT	



FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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1970 WEST LAFAYETTE AVE.
JACKSONVILLE, IL 60059
PHONE: 217-245-1146 FAX: 217-245-1149
IL DESIGN FIRM REGISTRATION NO. 184-000852

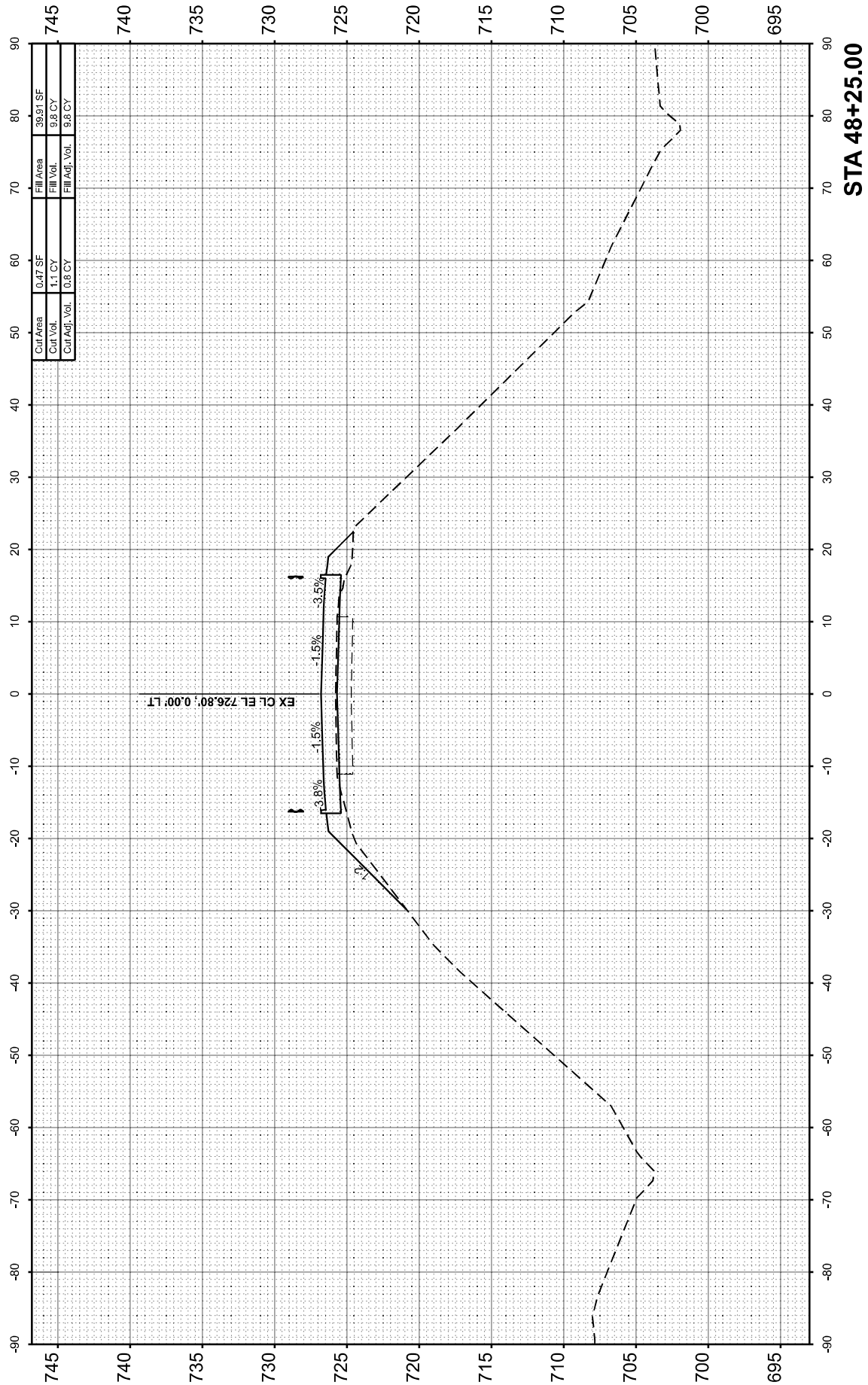
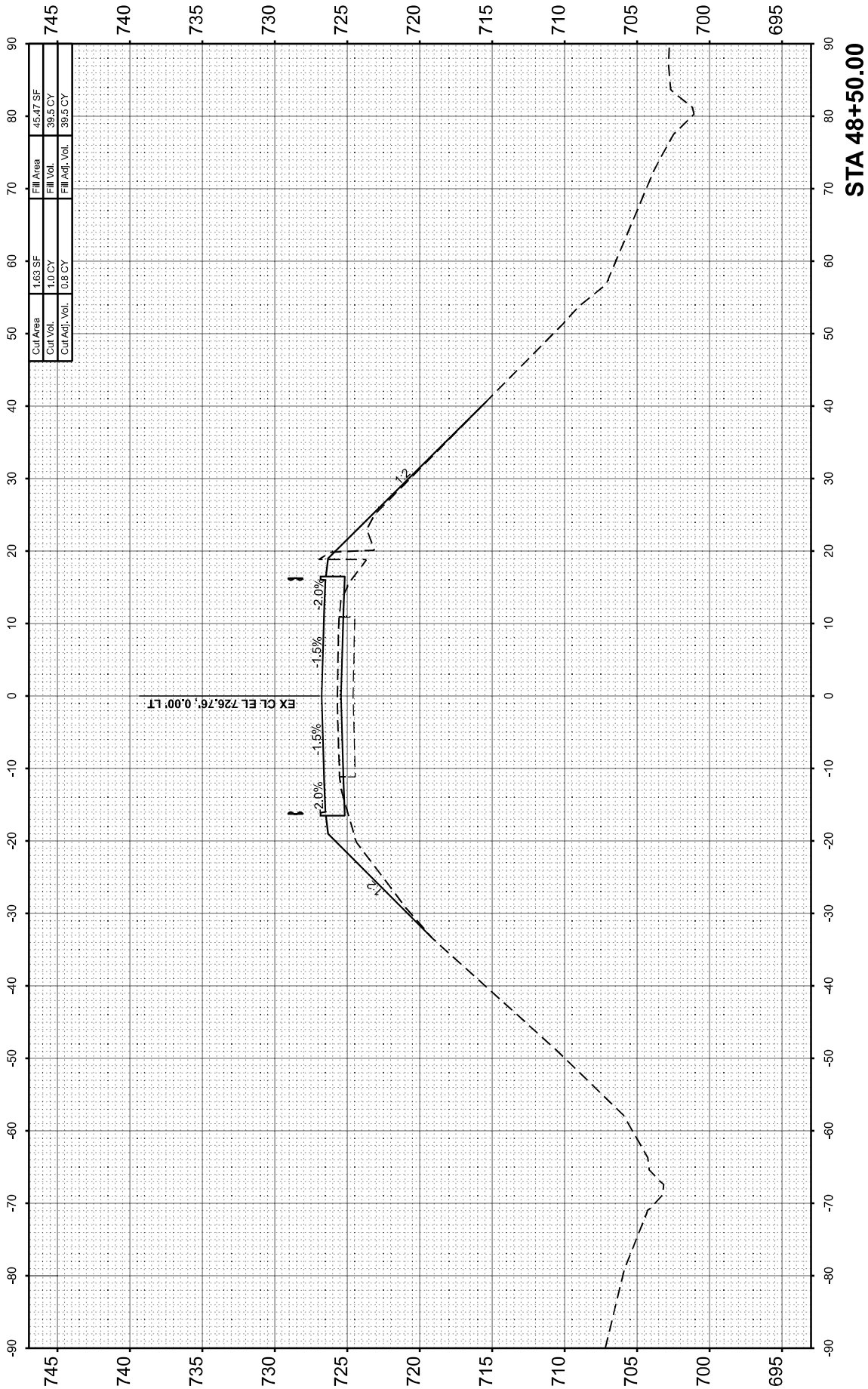
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
WHITE HEATH ROAD (OLD 47)

SCALE: 1"=10'
SHEET OF 10 SHEETS
STA. 48+25.00 TO STA. 48+50.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	72
CONTRACT NO. 70629				
		ILLINOIS	FED. AID PROJECT	



FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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1970 WEST LAFAYETTE AVE.
JACKSONVILLE, IL 60059
PHONE: 217-245-1146 FAX: 217-245-1149
IL DESIGN FIRM REGISTRATION NO. 184-00082

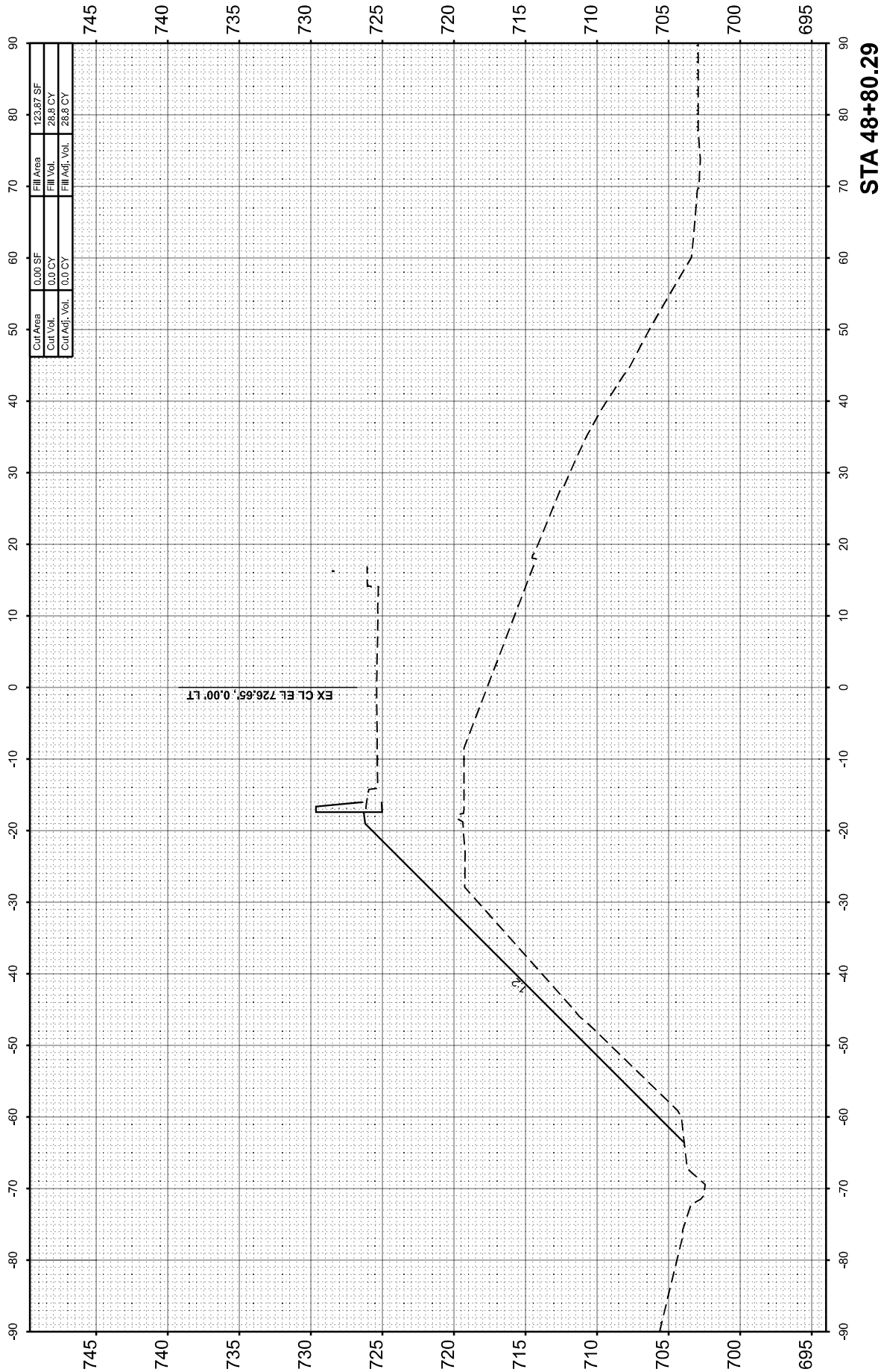
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

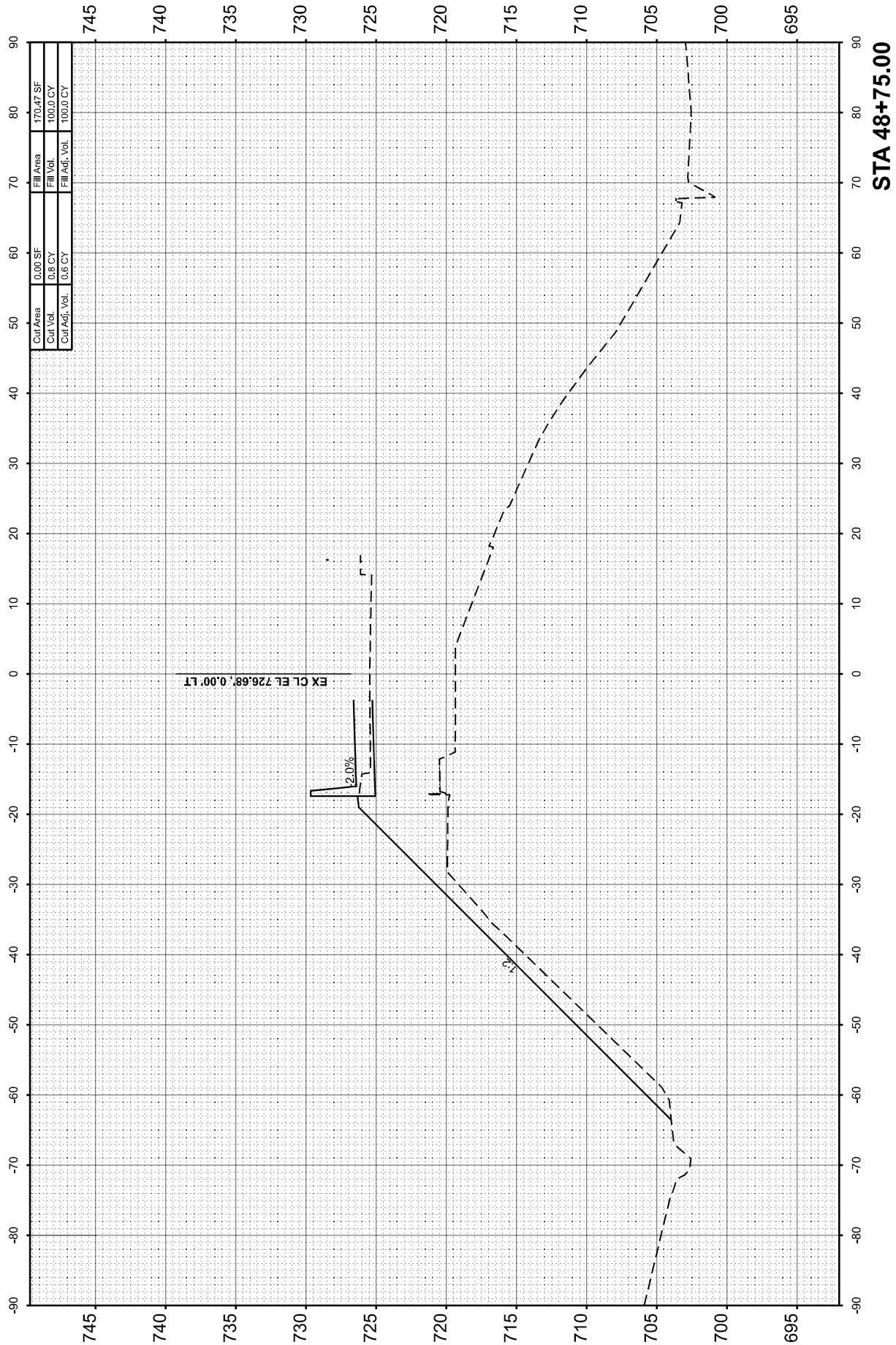
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WHITE HEATH ROAD (OLD 47)

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72	74-69BR	PIATT	78	73
CONTRACT NO. 70629				
		ILLINOIS	FED. AID PROJECT	



STA 48+80.29



STA 48+75.00

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1970 WEST LAFAYETTE AVE.
JACKSONVILLE, IL 60059
PHONE: 217-245-1146 FAX: 217-245-1149
IL DESIGN FIRM REGISTRATION NO. 184-00082

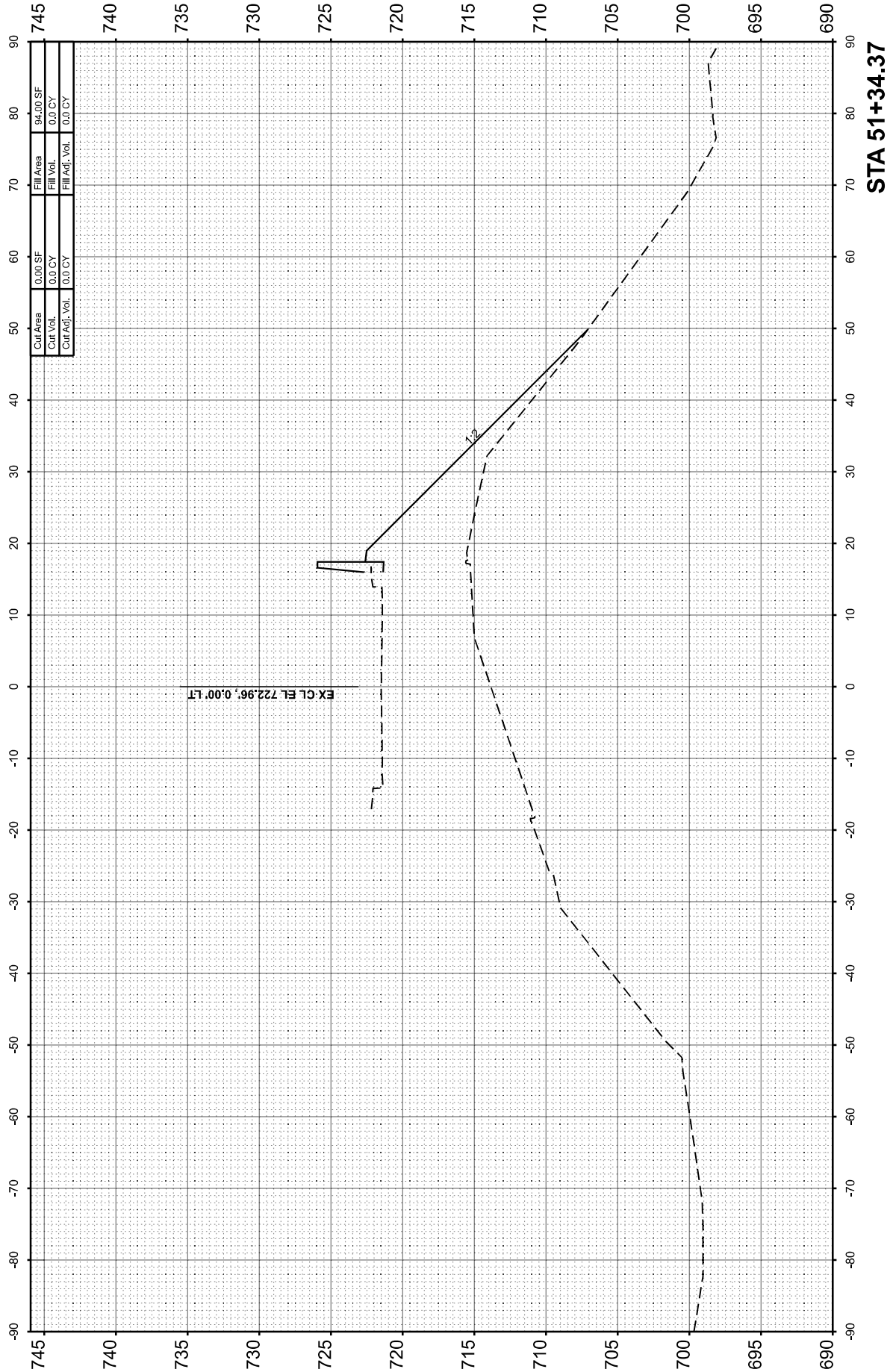
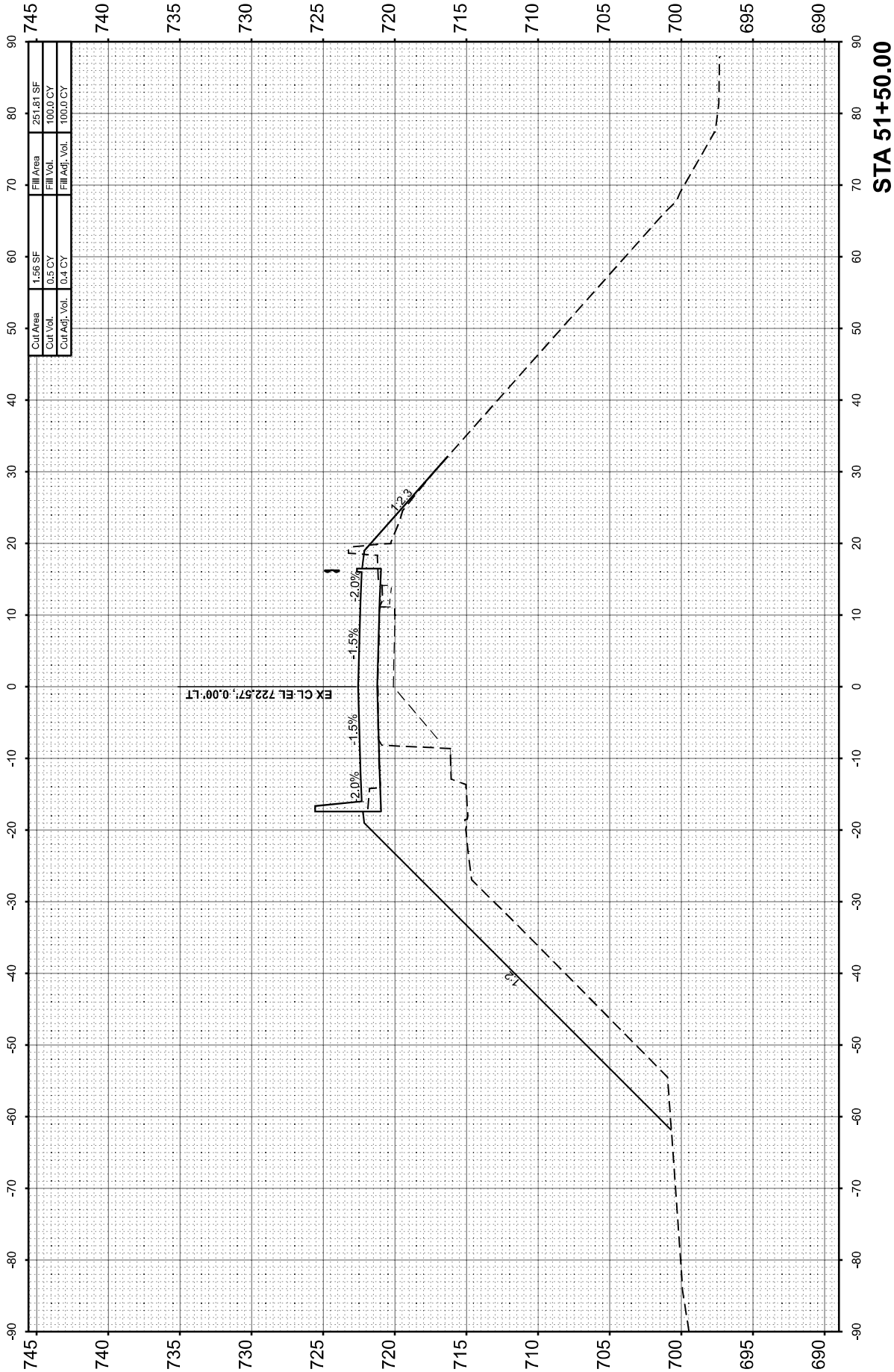
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
WHITE HEATH ROAD (OLD 47)

SCALE: 1"=10' SHEET OF 10 SHEETS STA. 51+34.37 TO STA. 51+50.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	74
CONTRACT NO. 70629				
		ILLINOIS	FED. AID PROJECT	



FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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CONSULTING ENGINEERS / LAND SURVEYORS
1970 WEST LAFALETTE AVE.
JACKSONVILLE, IL 62650
PHONE: 217-245-1346 FAX: 217-245-1349
IL DESIGN FIRM REGISTRATION NO. 184-000852

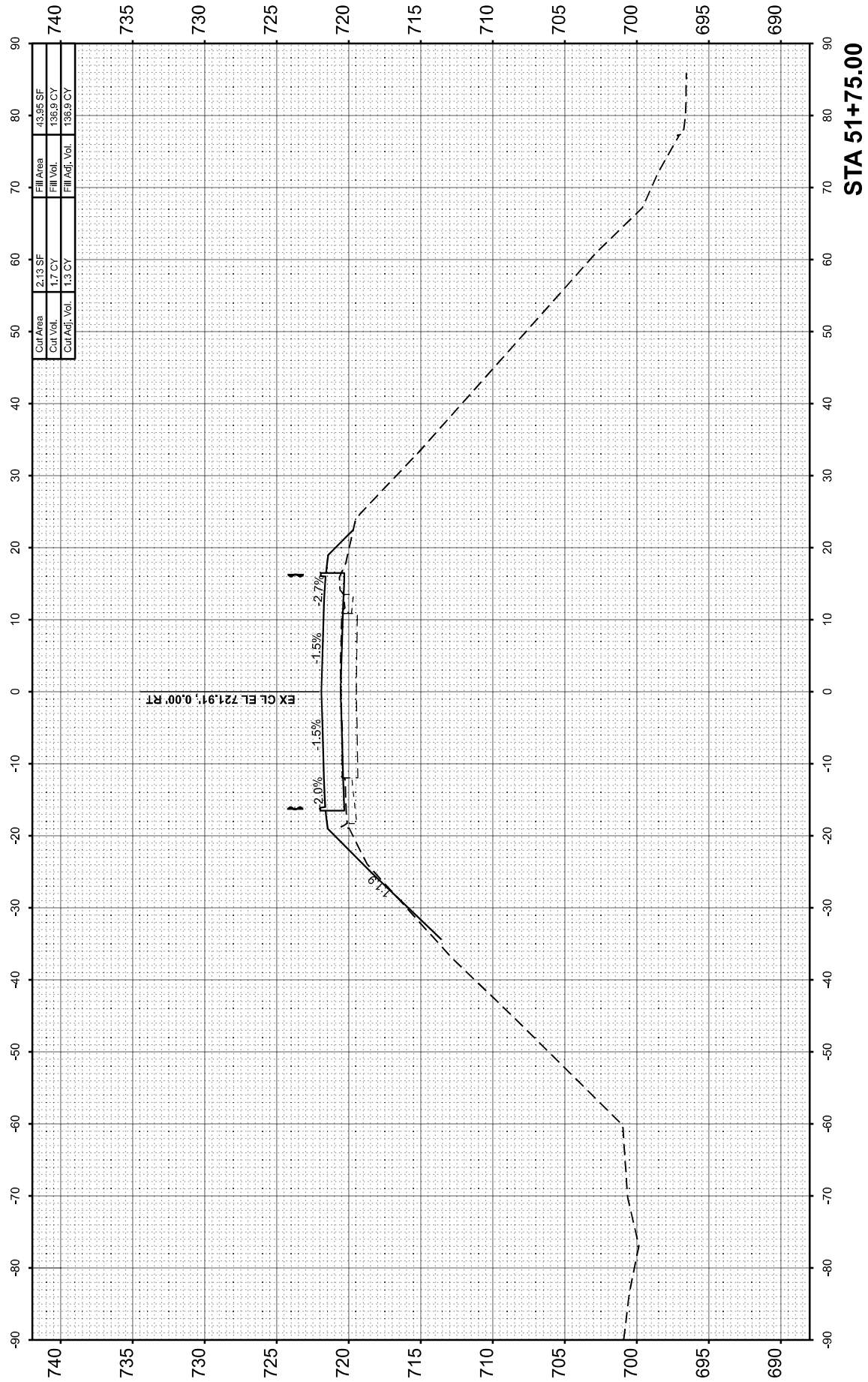
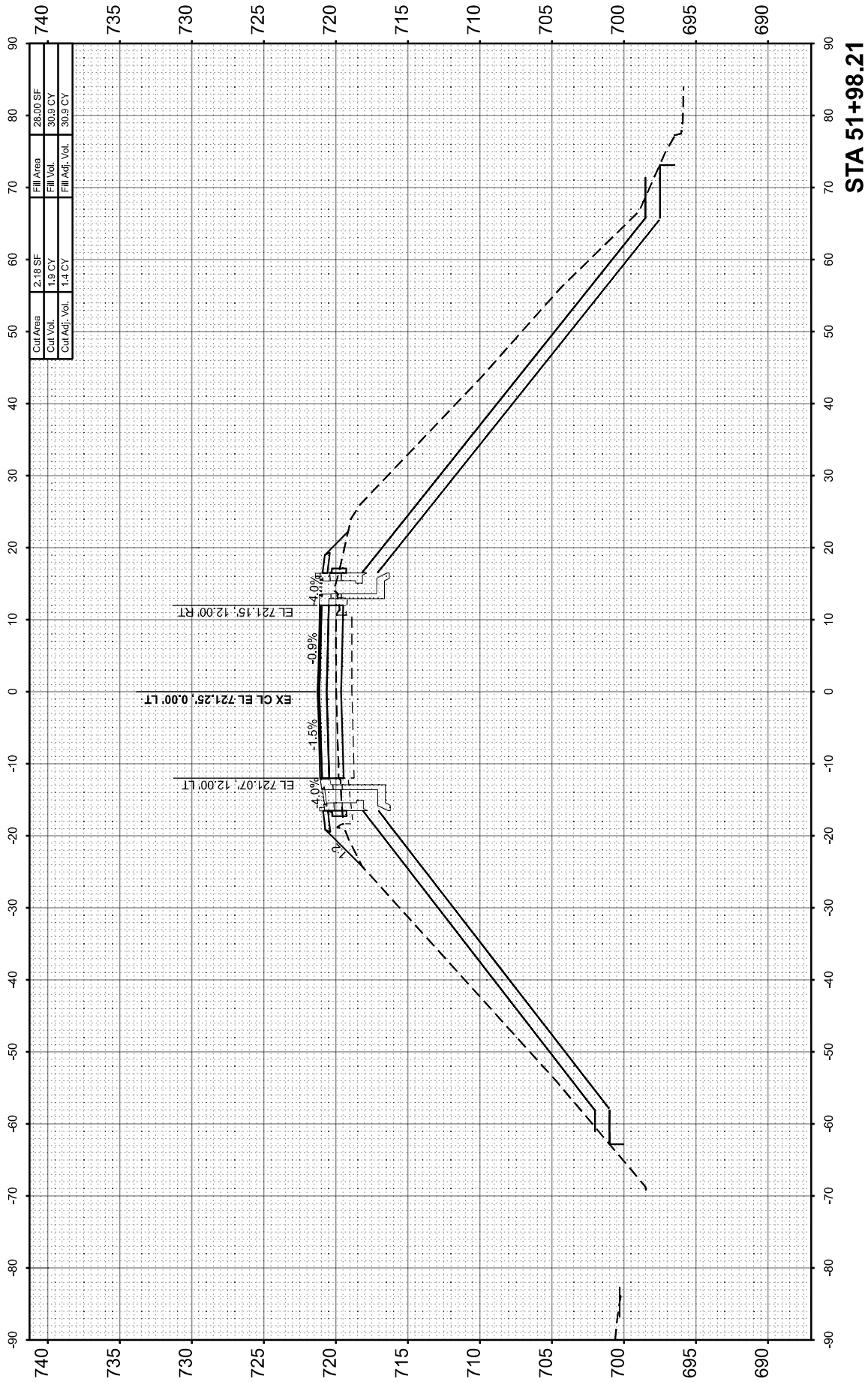
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PLOT DATE =	8/2/2024	DATE -	AUGUST 2, 2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
WHITE HEATH ROAD (OLD 47)

SCALE: 1"=10' SHEET OF 10 SHEETS STA. 51+75.00 TO STA. 51+98.21

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	75
CONTRACT NO. 70629				
		ILLINOIS	FED. AID PROJECT	



FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1970 WEST LAFAYETTE AVE.
JACKSONVILLE, IL 60059
PHONE: 217-245-1146 FAX: 217-245-1149
IL DESIGN FIRM REGISTRATION NO. 184-000852

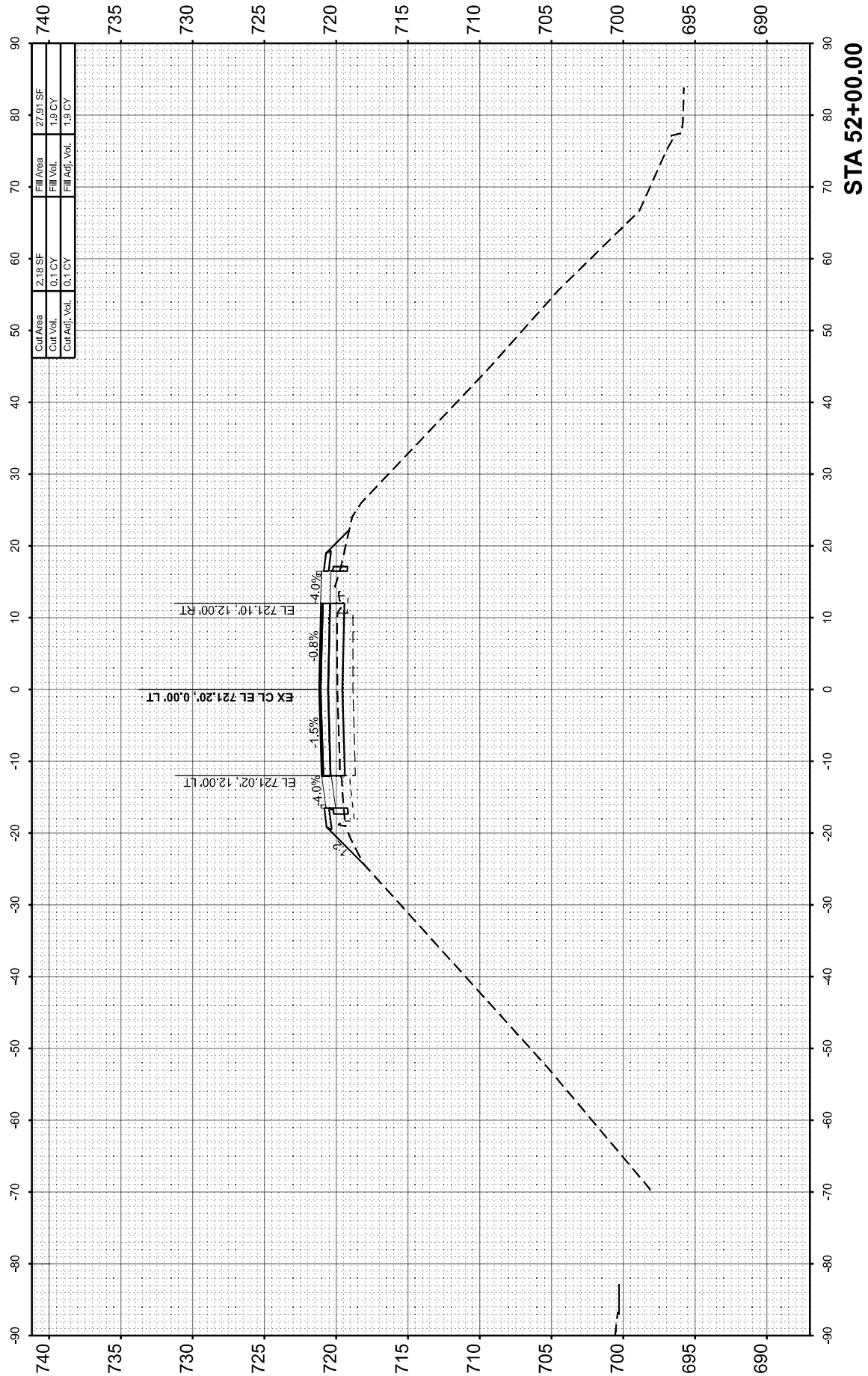
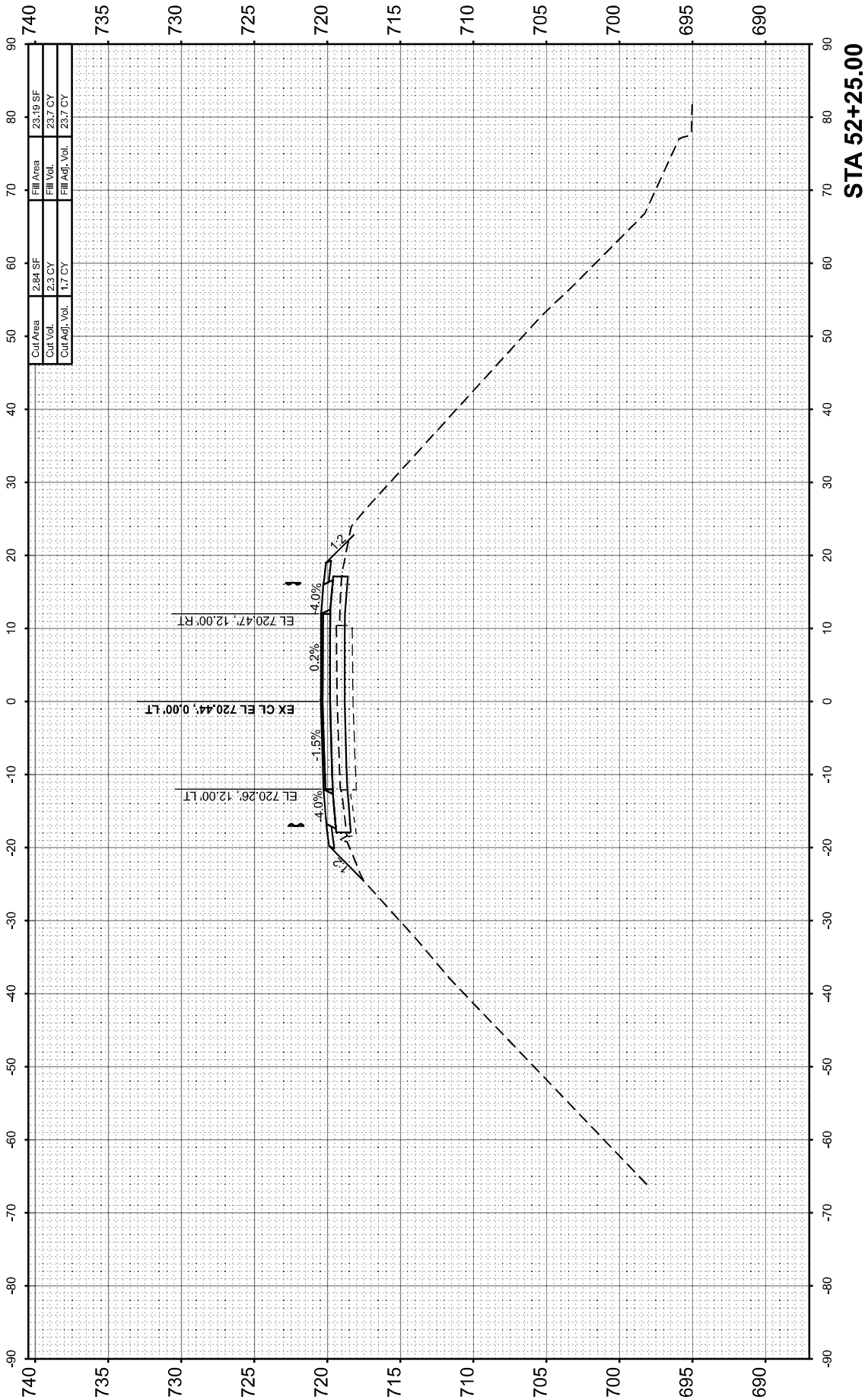
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PLOT DATE =	8/2/2024	DATE -	AUGUST 2, 2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
WHITE HEATH ROAD (OLD 47)

SCALE: 1"=10' SHEET OF 10 SHEETS STA. 52+00.00 TO STA. 52+25.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	76
CONTRACT NO. 70629				
ILLINOIS		FED. AID PROJECT		



FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

MODEL: OLD_47_52+50.00 [Sheet]
FILE NAME: P:\25703-3-70629 White Heath\70629 Section 74-69 BRCADD Sheets\DS70629-sh-xsc.dgn



BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1970 WEST LAFAYETTE AVE.
JACKSONVILLE, IL 60059
PHONE: 217-245-1146 FAX: 217-245-1149
IL DESIGN FIRM REGISTRATION NO. 184-000852

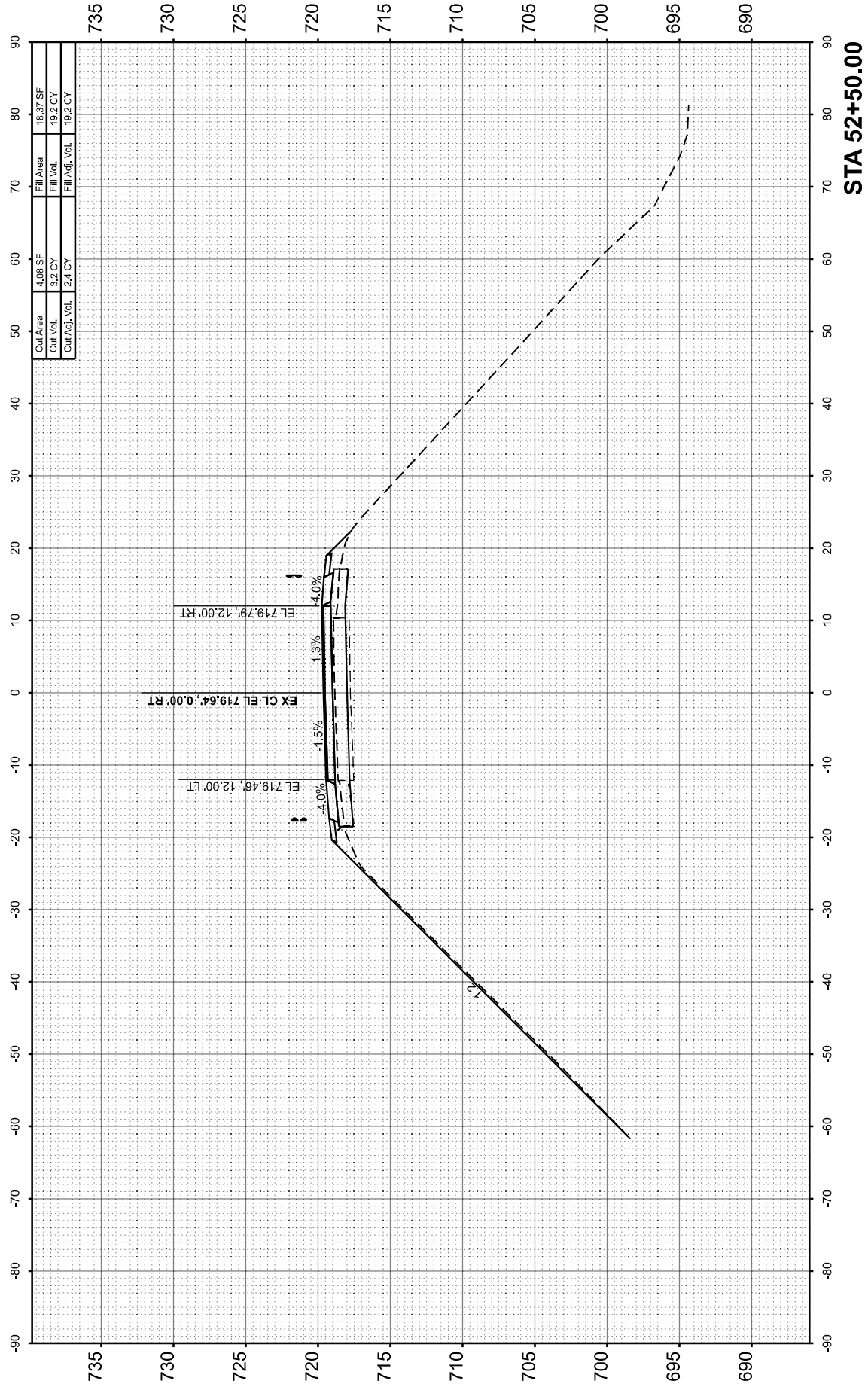
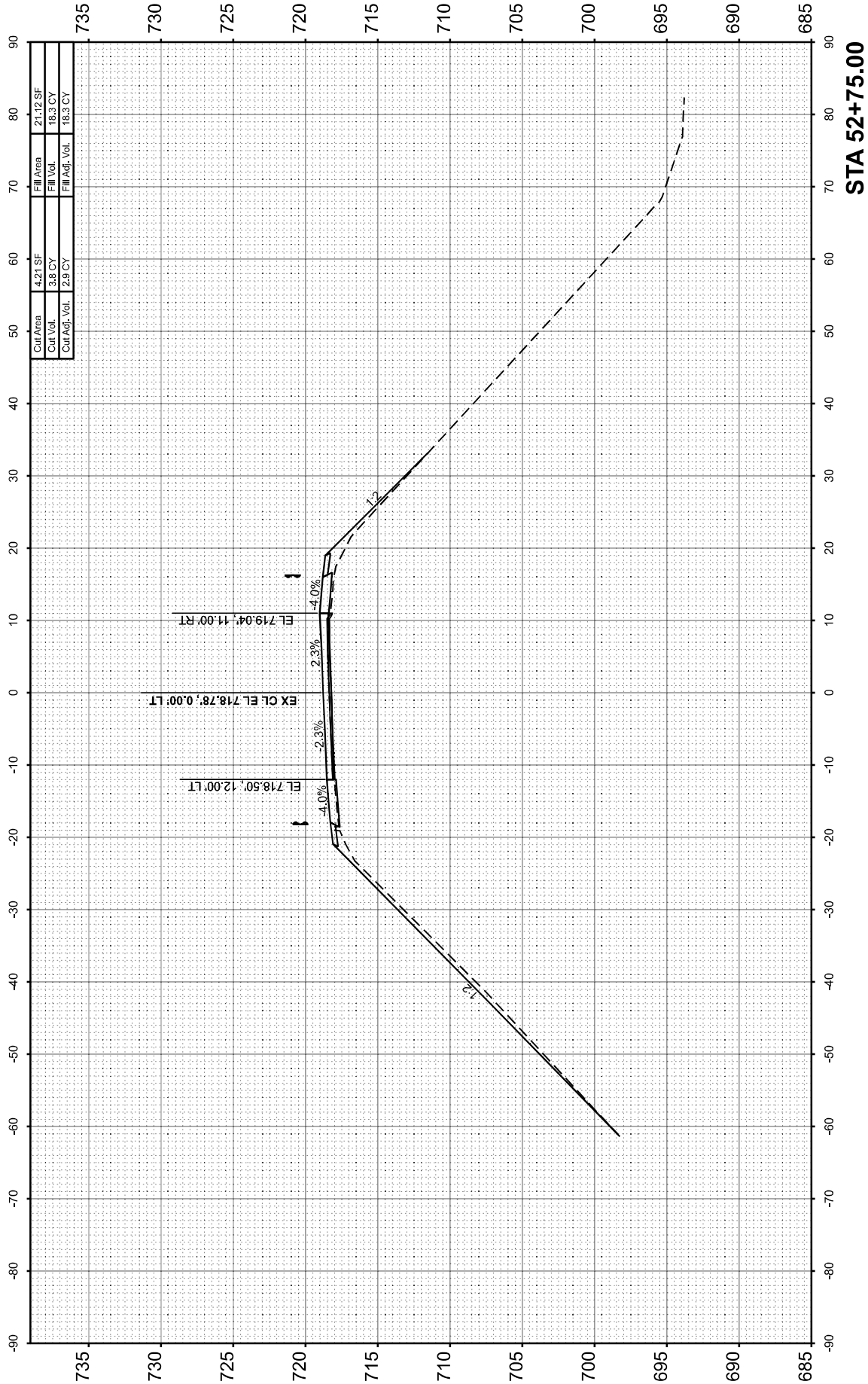
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		DRAWN -	RDS	REVISED -	
PLOT SCALE =	SSCALE\$	CHECKED -	WJS	REVISED -	
PLOT DATE =	8/2/2024	DATE -	AUGUST 2, 2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
WHITE HEATH ROAD (OLD 47)

SCALE: 1"=10' SHEET OF 10 SHEETS STA. 52+50.00 TO STA. 52+75.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	77
CONTRACT NO. 70629				
		ILLINOIS	FED. AID PROJECT	



FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: OLD_47 - 52+00.00 (Sheet)

FILE NAME: P:\2\EST03-3 - 70629 White Heath\70629 Section 74-69 BRCADD Sheets\DS70629-9-ht-ssc.dgn



BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1970 WEST LAFALETTE AVE.
JACKSONVILLE, IL 60059
PHONE: 217-245-1146 FAX: 217-245-1149
IL DESIGN FIRM REGISTRATION NO. 194-00082

USER NAME = dnuholl	DESIGNED - DSR	REVISED -
	DRAWN - RDS	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - WJS	REVISED -
PLOT DATE = 8/2/2024	DATE - AUGUST 2, 2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
WHITE HEATH ROAD (OLD 47)

SCALE: 1"=10' SHEET OF 10 SHEETS STA. 53+00.00 TO STA. 53+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	74-69BR	PIATT	78	78
CONTRACT NO. 70629				
		ILLINOIS	FED. AID PROJECT	

